

**NATIONAL POOLING
AND ROUTING
NUMBER
ADMINISTRATION

2020
ANNUAL REPORT**

Table of Contents

Section 1- Description of the National Pooling Administrator	6
1.1. Background	6
1.2 Neutrality	7
1.3 Description of the National Pooling Administrator (PA)	7
1.4 Description of the Routing Number Administrator (RNA).....	8
Section 2 - 2020 Pooling and P-ANI Administrator Highlights and Significant Milestones 9	
2.1 Pooling Administrator Contract	11
2.1.1 Required Performance Metrics.....	12
2.2 Pooling Administrator Services.....	13
2.2.1 Pooling Administrator Productivity	13
2.2.2. Authorized Interconnected VoIP Support	22
2.2.3 Reclamation	23
2.2.4 Pooling Administrator Help Desk.....	25
2.3 Pooling Administration System (PAS)	25
2.3.1 PAS Performance	25
2.3.2 PAS Change Orders	25
2.3.3 PAS Training Videos	25
2.4 Data Quality and Pooling Implementation Management	25
2.4.1 Rate Center Data Quality Control and Maintenance.....	26
2.4.1.1 Rate Center Information Changes	26
2.4.2 NRUF/Semi-Annual Forecast Report	27
2.5 Regulatory and Compliance	28
2.5.1 Regulatory Support	28
2.5.2 Debt Collection Improvement Act of 1996, FCC 04-72, MD Docket 02-339, adopted March 25, 2004 (Red Light Rule)	29
2.5.3 Reporting Compliance.....	29
2.5.3.1 Contract Data Requirements List (CDRL) – Recurring Reports.....	29
2.5.3.2 Other TRD Required Reports	30
2.6 Special Projects	30
2.6.1 Seeking Voluntary Disconnects.....	30
2.6.2 Abandoned Codes/Thousands-blocks:	31

2.7 Routing Number Administrator (a/k/a P-ANI)	32
2.7.1 P-ANI Administrator (RNA) Productivity:	32
2.7.2 Other P-ANI Administrator Activities	33
2.7.2.1 Annual Report	33
2.7.2.2 Duplicate Assignment Issues	33
2.7.2.3 Customer Support	34
2.7.2.4 P-ANI Activity and Projected Exhaust Report	34
2.7.3 Routing Number Administration System (RNAS)	35
2.7.4 Routing Number Administrator (RNA) Help Desk	35
2.7.5 RNAS Training Videos	36
2.8 PA and RNA Continued Focus on Outstanding Customer Satisfaction	36
3.1 Identification of Existing and Potential Pooling Areas	38
3.2 Summarized Information about Existing and “Potential” Pooling Areas	40
Section 4 - Aggregated Total by Pool of the Service Providers Participating in the Pooled Areas	41
Section 5 – 2020 Forecast Results and a Review of Forecasts versus Actual Thousands-Block Assignments	45
6.1. Pooling Administration System (PAS) Performance	59
6.1.1 Summary of PAS Performance	59
6.1.2 PAS Performance Metrics	60
6.1.3 PAS Maintenance and Change Orders	61
6.1.3.1 PAS Maintenance	61
6.1.3.2 PAS Change Orders	61
6.1.4 PAS Trouble Tickets	61
6.2. Routing Number Administration System (RNAS) Performance	62
6.2.1 Summary of RNAS Performance	62
6.2.2 RNAS Performance Metrics	64
6.2.3 RNAS Maintenance	64
6.2.3.1 RNAS Maintenance	64
6.2.3.2 RNAS Change Orders	65
6.2.4 RNAS Trouble Tickets	65
6.3. PA and RNA Systems Disaster Recovery Testing	65
Section 7 - Status of Required Transferable Property	66

Section 8- Industry Issue Identification/Feedback	67
8.1 North American Numbering Council (NANC).....	67
8.2 Participation in Industry Forums	67
8.3 Pooling and Routing Number Administrator Interaction with the Numbering Administration Oversight Working Group (NAOWG)	68
8.4 Pooling and Routing Number Administrator Formal Complaints.....	70
8.5 Pooling and Routing Number Administrator Quarterly <i>Tips</i>	70
8.5.1 Pooling <i>Quarterly Tips</i>	70
8.5.2 P-ANI <i>Quarterly Tips</i>	71
8.6 Pooling and Routing Number Administrator Customer Support / Help Desk	71
8.6.1 Pooling Administrator (PA) Help Desk Calls.....	71
8.6.2 Routing Number Administrator (RNA) Help Desk Calls	72
Section 9 - Volume of Reports Produced in 2020 Aggregated by Regulatory Agency, NANC, NANPA, Service Providers, and Metrics	73
Section 9.1 Total Reports.....	73
Section 9.2 Reports Compliance	74
Section 10 - Trends in Pooling Since 2016	77
10.1 NXXs Saved by Pooling	77
10.2 Total Applications Processed (Part 3As) from 2016 through 2020	84
10.3 Reclamation 2016 through 2020	85
10.4 Summary of Pooled Areas since 2016	86
APPENDIX 1	88
National Routing Number Administration 2020 p-ANI Activity and Projected Exhaust Report	88

Table of Figures

Figure 1: 2020 Pooling Applications by Type	16
Figure 2: Thousands-blocks Assigned by the PA in Each Month in 2020	17
Figure 3: Overview of All 2020 Applications Processed by Status.....	18
Figure 4: CO Codes Opened for LRNs from 2016 through 2020.....	82
Figure 5: CO Codes Opened for Dedicated Customers from 2016 through 2020	82
Figure 6: CO Codes Opened for Pool Replenishment from 2016 through 2020	83
Figure 7: Blocks Assigned During Years 2016 through 2020	83
Figure 8: Assigned Blocks at End of Year 2016 through 2020	84
Figure 9: Applications (Part 3As) Processed from Years 2016 through 2020.....	84

Section 1- Description of the National Pooling Administrator

1.1. Background

Thousands-block number pooling was first implemented as a trial in the Illinois 847 Numbering Plan Area (NPA) in June 1998 and was backed by the Federal Communications Commission (FCC) in its Memorandum Opinion and Order and Order on Reconsideration, CC 96-98, FCC 98-224, known as “the Pennsylvania Order.” In the Pennsylvania Order, the FCC granted limited authority to continue the Illinois pooling trial and encouraged other states to seek delegated authority to implement other pooling trials. Shortly thereafter, New York implemented a pooling trial in the 212 NPA. By the beginning of national pooling, in March 2002, the Thousands-Block Pooling Administrator (PA) was managing 22 state pooling trials in 83 NPAs.

There have been five (5) federal contracts to administer national pooling, all awarded after a competitive bidding process:

- Contract number CON01000016 was awarded on June 15, 2001 and expired on June 14, 2006. The FCC issued contract modifications between June 15, 2006 and July 12, 2007 to extend the PA’s contract through August 14, 2007. During this contract the PA developed, tested and implemented the first Pooling Administration System (PAS) and website, www.nationalpooling.com. At the start of national pooling the PA transitioned more than 5,000 thousands-blocks from the state trials to PAS and developed a national rollout schedule for implementation of pooling throughout the North American Numbering Plan (NANP). In addition to pooling administration, the FCC, by letter dated September 8, 2006, directed the PA to begin assigning Emergency Service Query Keys (ESQKs) under certain limited circumstances as the Interim Routing Number Administrator (IRNA).
- Contract number CON07000005 was awarded on July 31, 2007, became effective on August 15, 2007 and expired on August 14, 2012. The FCC issued contract modifications to extend the contract through July 14, 2013. This contract included the provision that the new national PA would act as the permanent Pseudo-Automatic Number Identification (p-ANI) Administrator (a/k/a Routing Number Administrator or RNA) once the FCC determined the permanent process. As a result, the PA developed, tested and implemented the Routing Number Administration System (RNAS) for p-ANI administration and upgraded PAS.
- Contract number FCC13C0007 was awarded on July 12, 2013 and expired on July 14, 2017. The FCC issued contract modifications to extend the contract through December 31, 2018. During this contract the PA upgraded PAS and moved it and RNAS into the cloud utilizing Amazon Web Services (AWS).

- On October 5, 2018, the FCC awarded contract number 273FCC19C0002, a one-year bridge contract for national pooling and p-ANI administration services, to Somos, Inc. The PA transitioned PAS, RNAS and personnel seamlessly to Somos, maintaining continuity of service. This contract expired on October 31, 2019. On November 1, 2019, the FCC extended the bridge contract for six-months with two additional three-month options. The FCC exercised a total of three extensions and the bridge contract expired on November 30, 2020.
- On December 1, 2020, the FCC awarded contract number 273FCC21C0003, a contract for the North American Numbering Plan Administrator (NANPA) that includes combining the current NANPA, PA and RNA services into one NANPA organization, as well as the new Reassigned Numbers Database (RND) functions, to SomosGov, Inc. This contract is for a base period of five-years, with three additional one-year options.

1.2 Neutrality

The PA is a non-governmental entity that is impartial and not aligned with any particular telecommunication industry segment and complies with 47 C.F.R. § 52.12. Section 1.10, Neutrality Requirements, of the pooling contract requires that the PA be an independent, neutral third party. As such, the PA is responsible for the fair and efficient overall administration of pooled numbering resources.

1.3 Description of the National Pooling Administrator (PA)

The PA performs the day-to-day number resource assignment and administrative activities with a long-term focus, which includes maintaining a system to support all day-to-day and long-term pooling functions.

As such, the PA:

- Provides a standardized application of all administrative pooling guidelines,
- Develops tools and has implemented a system containing both hardware and software to facilitate the assignment, tracking, and data reporting requirements,
- Maintains interfaces with the North American Numbering Plan Administrator (NANPA), the Number Portability Administration Center (NPAC), service providers, industry forums, (e.g., Industry Numbering Committee (INC), etc.) and regulatory agencies, and
- Maintains and plans for adequate pool inventory numbering resources.

The PA also interacts with the NANPA and the NPAC vendor, while impartially administering thousands-thousands-block number pools by assigning, managing, forecasting, reporting, and processing data that allows service providers in rate centers

designated for thousands-thousands-block number pooling to receive telephone numbers in thousands-blocks of 1,000. In addition, we maintain accurate rate center designations.

1.4 Description of the Routing Number Administrator (RNA)

As the RNA, the PA is responsible for managing and assigning non-dialable p-ANIs, which are used to support the routing of wireless and VoIP 9-1-1 calls. The p-ANIs are assigned out of the 211 and 511 NXXs on a national basis, as well as in Puerto Rico and the Virgin Islands, and were added as part of the RNA responsibilities on September 24, 2012.

The RNA performs the day-to-day p-ANI assignment and administrative activities with a long-term focus, which includes maintaining a system to support all day-to-day and long-term p-ANI functions.

In compliance with the current contract, the RNA:

- Provides processes for a standardized application of all administrative p-ANI guidelines;
- Maintains a system containing both hardware and software to facilitate the assignment, tracking, and data reporting requirements; and,
- Maintains and plans for adequate p-ANI inventory.

Section 2 - 2020 Pooling and P-ANI Administrator Highlights and Significant Milestones

The following are the Pooling Administrator (PA) and Routing Number/P-ANI Administrator (RNA/P-ANI) highlights and significant milestones for 2020:

★ Pooling Contract:

- ◆ The PA met all performance metrics
- ◆ The PA worked under the bridge contract through November 30 and the permanent contract which was awarded effective December 1

★ Following are highlights of PA productivity for 2020:

- ◆ Processed:
 - 210,009 Part 3As, which is an all-time record for a one-year period
 - 172,174 approvals
 - 27,678 suspensions
 - 1,486 withdrawals
 - 8,671 thousands-block or code request denials
 - 219 were Red Light Rule denials
 - 100% of those applications were processed within 7 calendar days
 - 85,291 requests for new resources (containing both multiple thousands-block and code requests)
 - Assigned 74,078 thousands-blocks
 - Opened 4,887 Central Office (CO) codes
 - 82,617 change requests
 - 18,056 disconnect requests
 - 15,238 actual thousands-block disconnects
- ◆ Reclaimed 5 thousands-blocks
- ◆ Answered and responded to 100% of the 896 received calls within 1 business day
- ◆ Handled 371 Help Desk calls

★ Pooling Administration System (PAS):

- ◆ PAS was available for use **100%** of scheduled uptime during 2020, which meets the PAS performance metric of a minimum of 99.9% scheduled uptime
- ◆ PAS had no unscheduled down time
- ◆ PAS had maintenance five times and used three hours 33 minutes of the FCC-approved down time in conjunction with the maintenance activities
- ◆ Opened and closed two trouble tickets

★ Reporting:

- ◆ Produced a total of 637 reports for the FCC, states, the North American Numbering Council (NANC), North American Numbering Plan Administrator (NANPA), service providers and others
- ◆ Submitted all 69 required Contract Data Requirements List (CDRL) reports on time and posted them to the website
- ◆ Submitted all 16 additional contract-required reports on time and posted them to the website
- ◆ Produced all 142 by-request [ad hoc] reports within three business days

★ Industry Support:

- ◆ Participated in 83 industry meetings for NANC, INC, CIGRR, ESIF, LNPAWG and NANC WGs either in-person or virtually
- ◆ Submitted 5 new issues and 5 new contributions at the INC
- ◆ Provided 35 pooling status reports to the NANPA for its meetings
- ◆ Attended 17 NANPA meetings relating to NPA relief and jeopardy, providing an up-to-date pooling status for the affected NPAs
- ◆ Made 212 changes to rate center information, of which 81% changed the pooling status designation from Excluded to Optional
- ◆ Met with the Numbering Administration Oversight Working Group (NAOWG) Contract Oversight Subcommittee 12 times providing updates on various PA activities and providing responses to questions
- ◆ Continued sending pooling *Quarterly Tips*
- ◆ Had no formal complaints

★ Training:

- ◆ Facilitated five state regulatory commission educational sessions on pooling processes
- ◆ Participated as a panelist in a National Regulatory Research Institute (NRRRI) webinar
- ◆ Educational videos continue to be available on the pooling website

★ Distinctive Projects:

- ◆ Continued seeking Disconnects
- ◆ Continued seeking resolution for Abandoned Codes/Thousands-blocks
- ◆ Provided support for NANPA with the transition to 10-digit dialing for the three-digit abbreviated 988 code in 83 area codes in 37 states

★ Following are highlights of Routing Number/P-ANI Administrator productivity:

- ◆ 2,026 applications processed (Part 3s issued)
 - 100% of those applications processed on time
- ◆ 1,281 new p-ANI range assignments made
- ◆ 6 modifications made to existing p-ANI ranges
- ◆ 729 p-ANI range returns processed
- ◆ 1 request to cancel p-ANI returns processed
- ◆ 1 request denied
- ◆ 8 requests withdrawn
- ◆ 0 requests suspended

★ Other Routing Number/P-ANI Activities:

- ◆ Worked with carriers to resolve 45 data discrepancies
- ◆ Processed carriers' annual reports and semi-annual forecasts
- ◆ Attended Emergency Services Interconnection Forum (ESIF) meetings
- ◆ Completed and posted the P-ANI Activity and Projected Exhaust Report
- ◆ Worked with carriers on supporting documentation issues
- ◆ Continued publishing the p-ANI *Quarterly Tips*
- ◆ Continued to provide educational videos

★ Routing Number Administration System (RNAS):

- RNAS was available for use **100%** of scheduled time for the year and continued meeting the RNAS performance metric of a minimum of 99.9% scheduled uptime
- RNAS had no unscheduled down time
- We conducted maintenance on RNAS three times with two hours 14 minutes of FCC-approved downtime
- RNAS had no trouble tickets opened

Following is a synopsis of PA and RNA major accomplishments during the 2020 reporting period and is based on the requirements from the bridge contract. Details for these activities are found throughout the report.

2.1 Pooling Administrator Contract

Somos continued working under an extended bridge contract for 11-months in 2020. On December 1, 2020, the FCC awarded contract number 273FCC21C0003, contract for the North American Numbering Plan Administrator (NANPA) that includes combining the current North American Numbering Administrator (NANPA), PA and RNA services into one NANPA organization, as well as the new Reassigned Numbers Database (RND) functions, to SomosGov, Inc. This contract is for a base period of five-years, with three additional one-year options.

2.1.1 Required Performance Metrics

As illustrated in Table 2-1 below, the PA and RNA met all performance measurements for the PA and RNA functions as outlined in Section 6 of the Technical Requirements Document (TRD).

**Table 2-1
PA/RNA Performance Measurements**

Required Service	Performance Standards	Acceptable Quality Levels	Actual 2020 Quality Level	Met Or Not Met Y or N
Process Applications (See Sections 2.20.4, 2.22.4.6, 2.22.4.7)	PAS applications processed within 7 calendar days; RNAS applications processed within 5 business days	99%	100%	Y
Answer calls (See Section 2.22.4.3)	Calls answered within 1 business day	100%	100%	Y
Submission of Deliverables (See Sections 5.2, 5.3, 5.4, 5.5, 5.6, 5.6.1, 5.6.2.1, 5.6.2.2, 5.6.3.1, 5.7, 5.8, 5.9, 5.10)	Deliverables submitted no later than the due dates	100%	100%	Y
Submission of Deliverables (See Sections 5.6.4.1, 5.6.4.2, 5.6.4.3, 5.6.4.4, 5.6.5)	Deliverables submitted no later than the due dates	100%	100%	Y
PAS and RNAS Availability (See Sections 3.3 and 4.3)	Pooling Administration System is available; Routing Number Administration System is available	99.9%	PAS: 100% RNAS: 100%	Y

Required Service	Performance Standards	Acceptable Quality Levels	Actual 2020 Quality Level	Met Or Not Met Y or N
Maintenance (See Sections 3.3 and 4.3)	Unscheduled maintenance of the PAS is less than 9 hours in any 12-month period; Unscheduled maintenance of the RNAS is less than 9 hours in any 12-month period	100%	100%	Y
Maintenance (See Sections 3.3 and 4.3)	Scheduled maintenance of the PAS is less than 24 hours in any 12-month period; Scheduled maintenance of the RNAS is less than 24 hours in any 12-month period	100%	100%	Y

2.2 Pooling Administrator Services

This section describes PA activity in 2020, including information about applications processed, thousands-blocks assigned, and CO codes opened. Productivity statistics for the past five years can be found herein in Section 10, *Trends in Pooling Since 2016*.

2.2.1 Pooling Administrator Productivity

The PA continued its exceptional level of performance in 2020 and despite the challenges of remote working during the pandemic, handled record numbers of applications while meeting all performance measurements. In 2020 the PA processed a record 210,009 Part 3As. The previous highest annual total was in 2015, with 145,828. In addition, the PA saw two months of individual high totals with 28,554 in June and 33,302 in August. The previous highest individual monthly total was 25,142 in June 2013.

Table 2-2 identifies areas of activity:

**Table 2-2
PA Productivity at a Glance**

ACTIVITIES	2020 TOTALS
Applications processed (Part 3As):	210,009
Applications not processed in 7 calendar days:	0
Thousands-blocks assigned:	74,078
Change requests to existing thousands-blocks or codes:	82,617
Disconnects processed (Part 3As):	15,238
Withdrawals:	1,486
Thousands-block or code requests denied:	8,671
CO codes opened:	4,887
Red Light Rule denials:	219
Total thousands-blocks reclaimed:	5

Table 2-3 shows a breakdown of applications (Part 3As) by disposition type, including approvals, denials, suspensions, and withdrawals.

**Table 2-3
Applications (Part 3As) Processed**

Approvals	172,174
Denials	8,671
Suspensions	27,678
Withdrawals	1,486
TOTAL	210,009

Table 2-4 and Figure 1 contain the total number of applications processed by activity type.

**Table 2-4
2020 Applications Processed by Type**

	Approved	Denied	Suspended	Withdrawn	Total
Thousands-block Modifications	79,081	444	-	693	80,218
Thousands-block Disconnects	15,238	2,111	17,366	131	34,846
Thousands-block Cancel Disconnect	51	1	-	-	52
Individual Thousands-blocks	61,174	3,553	-	305	65,032
Thousands-block Reservations	17	1	-	2	20
Process/Cancel Thousands-block Reservations	10	-	-	-	10
Code Modifications	3,515	164	3,559	92	7,330
Code Disconnects	103	611	1,395	6	2,115
LRN Thousands-blocks	858	672	813	52	2,395
Dedicated Customer Thousands-blocks	450	29	47	2	528
Pool Replenishment Thousands-blocks	11,601	1,044	4,498	193	17,336
ISP Disconnects	23	19	-	-	42
ISP Modifications	21	20	-	-	41
ISP Thousands-blocks	32	2	-	10	44
TOTALS	172,174	8,671	27,678	1,486	210,009

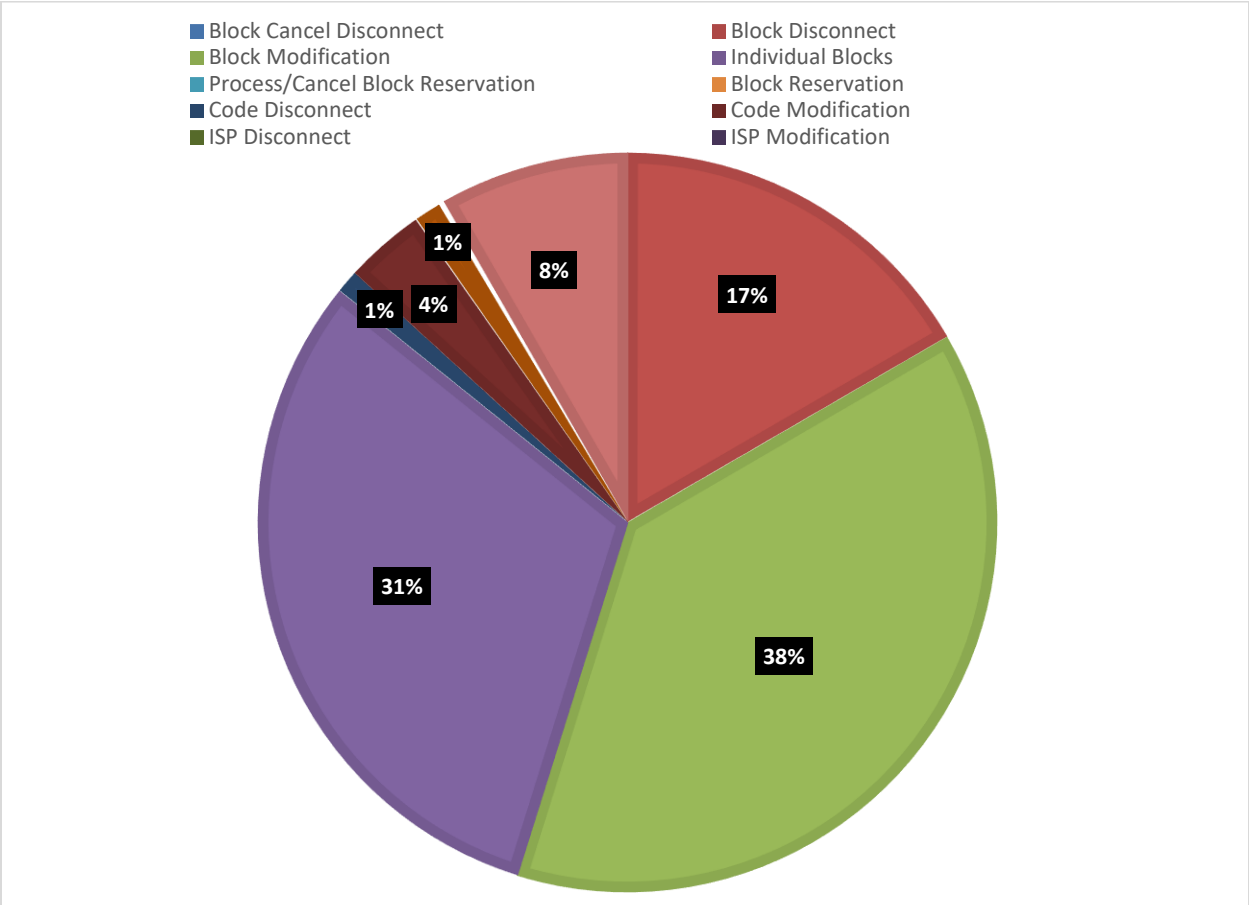


Figure 1: 2020 Pooling Applications by Type

The PA also issued 15,559 Part 5s for thousands-block disconnects, reclamations, and exchanges during 2020, of which 15,238 were actual thousands-block disconnects.

The PA processed 100% of the 210,009 applications (Part 3As) within seven calendar days, which exceeds the performance metric of 99%.

There were 711,109 assigned thousands-blocks in PAS at the end of 2020, an increase of 63,282 from 2019.

Figure 2 below depicts the monthly thousands-block assignments made by the PA during each month in 2020.

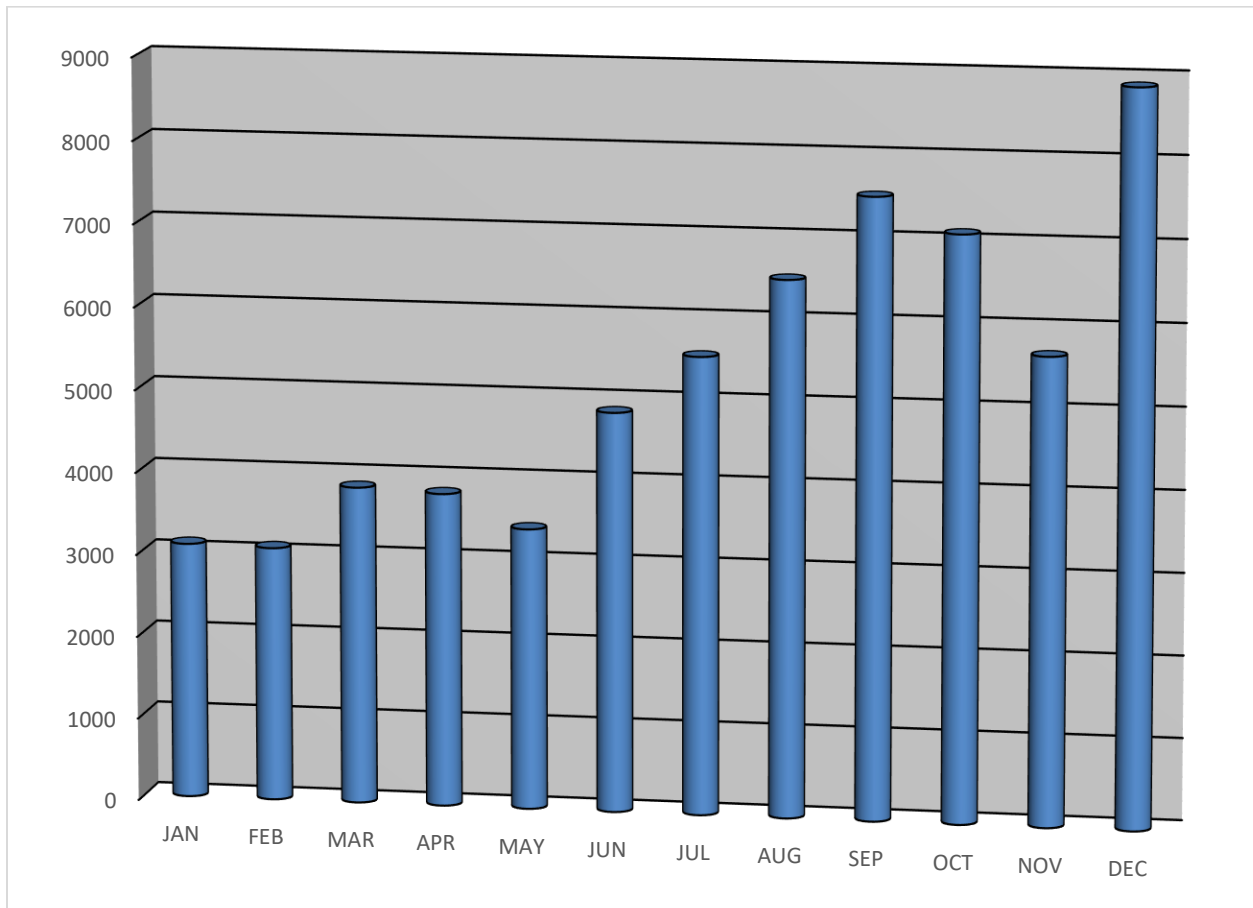


Figure 2: Thousands-blocks Assigned by the PA in Each Month in 2020

The total number of applications (Part 3As) processed is a measure of the actual processing work performed by the Pooling Administrators(PAs), because not every application result in the immediate assignment of a thousands-block. Although a large majority of applications for numbering resources are processed and approved immediately, some are suspended for future action, and some are denied or withdrawn entirely. Each of these actions requires work on the part of the PA and generates a Part 3A.

Figure 3 below provides a complete overview of all applications processed in PAS for 2020, including approvals, denials, withdrawals, and suspended applications.

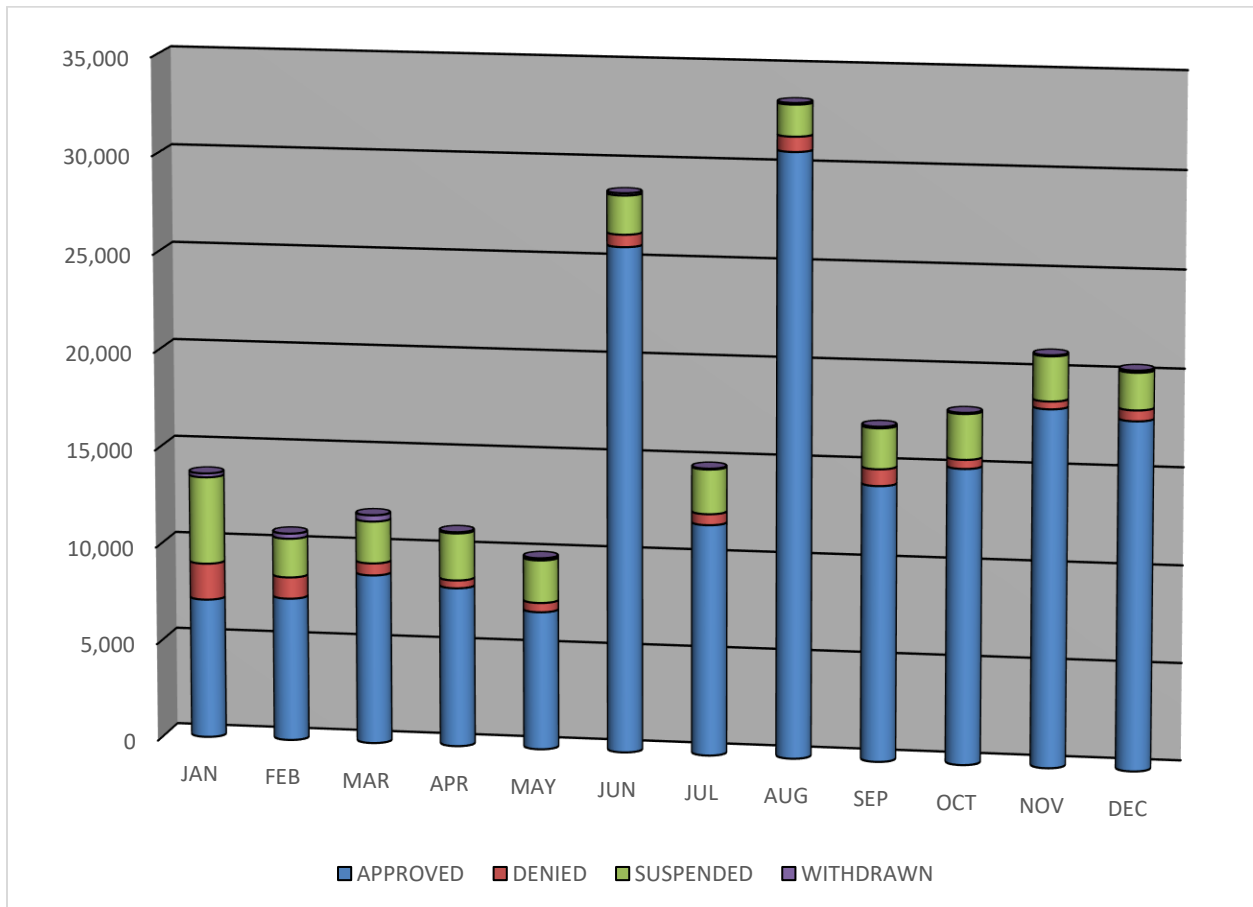


Figure 3: Overview of All 2020 Applications Processed by Status

Tables 2-5 and 2-6 list the ten states and Numbering Plan Areas (NPAs) for which the highest number of applications (Part 3As) occurred in 2020:

**Table 2-5
Ten States with Highest Number of Applications (Part 3As)**

State	Total Part 3As
CA	32,225
TX	18,452
NY	11,126
FL	10,261
PA	9,818
IL	7,465
GA	6,776
VA	6,382
MI	6,097
WA	5,591

**Table 2-6
Ten NPAs with Highest Number of Applications (Part 3As)**

NPA	State	Total Part 3As
707	CA	2,138
209	CA	1,978
443	MD	1,970
760	CA	1,957
540	VA	1,783
832	TX	1,783
530	CA	1,699
240	MD	1,678
541	OR	1,671
360	WA	1,636

Pool replenishment allows service providers to open a code to add thousands-blocks to a pool when a pooling rate center inventory will either be equal to or falls below the aggregated six-month service provider forecasts. We manage the process by determining when a rate center inventory is not adequate to meet forecasted demand. PAS alerts a service provider about the need to replenish the pool and permits several options for the service provider. Because it is not authorized to obtain resources directly, the PA has no authority to actually replenish the inventory pools itself and therefore must rely on the service providers that can meet both the

MTE (Months-to-Exhaust) and utilization requirements to maintain adequate inventories by opening an CO code, keeping the thousands-blocks they need and then returning the remaining thousands-blocks from that CO code to the pool.

Table 2-7 below provides an overview of rate center inventories and pool replenishment.

**Table 2-7
2020 Pool Replenishment Overview**

Average number of rate centers per month that had less than a six-month inventory	587
Percentage of total number of rate centers per month that had less than a six-month inventory	3.2%
Average number of rate centers per month that had no thousands-blocks available with forecast	209
Number of CO codes opened for pool replenishment	4,152

Table 2-8 shows the number of CO codes opened by the PA in 2020 and for what purpose. Pool replenishment accounts for 86% of the CO codes opened.

**Table 2-8
CO Codes Opened by Purpose**

PURPOSE	TOTAL	PERCENT OF TOTAL
LRN	691	14%
Dedicated Customer	44	1%
Pool Replenishment	4,152	85%
TOTAL	4,887	100%

Tables 2-9 and 2-10 show the ten states and NPAs which had the most pool replenishment activity in 2020.

**Table 2-9
Ten States with the Most CO Codes Opened for Pool Replenishment**

State	CO Codes Opened
CA	621
TX	409
FL	286
NY	202
IL	172
GA	170
OH	148
PA	139
AZ	137
VA	128

**Table 2-10
Ten NPAs with the Most CO Codes Opened for Pool Replenishment**

NPA	State	CO Codes Opened
470	GA	77
657	CA	60
442	CA	52
928	AZ	44
209	CA	40
909	CA	39
949	CA	36
815	IL	35
346	TX	34
737	TX	34

In addition to processing, as a routine part of their job performance, the PA staff also:

- Respond to questions and requests for assistance from service providers,
- Review documentation to assure eligibility for requested thousands-blocks and pooled codes,

- Interact with state commission staff about certification issues and answer questions about the pooling process,
- Assist service providers with questions relating to PAS,
- Educate new users on the pooling processes,
- Search for new thousands-block holders for thousands-blocks being returned with greater than 10% contamination,
- Search for new code holders for pooled codes being returned with thousands-blocks assigned,
- Assist with answering Help Desk calls,
- Work closely with the NPAC Pooling Coordinators to ensure that thousands-block requests are handled in accordance with industry guidelines, and
- Work closely with the NANPA Code Administrators to ensure that CO code requests are handled in accordance with INC guidelines.

2.2.2. Authorized Interconnected VoIP Support

On June 22, 2015, the Federal Communications Commission (FCC) released the VoIP Direct Access order establishing a process to authorize interconnected VoIP (iVoIP) providers to obtain telephone numbers directly from the Numbering Administrators. The PA has been providing additional support for iVoIP providers and state regulators since the order became effective and the FCC began accepting applications for authorization in February 2016.

Once an iVoIP provider's direct access authorization application is granted, the applicant can immediately submit the required 30-day notification to states from which it intends to request numbers. The first numbering resources were assigned to an iVoIP entity in May 2016.

By the end of 2020, a total of 115 applications had been submitted to the FCC for direct access authorization, with a total of 67 approved. Of those 46 new applications that were submitted in 2020, and the FCC issued 25 authorizations.

We continue to support and educate iVoIP providers on application processing requirements, proper supporting documentation, and the information needed in 30-day notification letters. We provide a "Getting Started for Interconnected VOIP Providers" quick sheet that offers guidance on the rules and industry guidelines related to iVoIP direct access to numbering resources and maintain a "New Service Provider Checklist" to assist with process questions.

We also work one-on-one with the iVoIP applicants to explain the rules and guidelines so the applications for numbering resources can be processed as quickly as possible. This often prevents the need to resubmit documentation or applications. We work with individual iVoIP provider's personnel, going over the process for registering in PAS, what documentation they need and how to submit applications.

In addition, we continue sending regular updates to the state commissions whenever new applications or filings are made and when initial requests to open codes for LRNs are submitted in their states. The PA continues to respond to questions about the 30-day day notification process and works with the states and the FCC on whether the iVoIP entities must follow individual state regulations.

We also continue to maintain and update the “VoIP Provider 30-day Notification State Regulatory Contact Sheet” which is posted to our website. We developed the file with information obtained from state regulatory authorities about how to submit 30-day notifications, as well as contact information for each state. It is intended to save iVoIP providers time when submitting a 30-day notification to a state.

In 2020, there were 31,367 applications (Part 3As) processed for iVoIP providers, approximately 15% of the total number of Parts 3As processed. Table 2-11 details the total number of applications processed for iVoIP providers in 2020:

Table 2-11
2020 iVoIP Applications (Part 3As) Processed

Approvals	25,522
Denials	2,290
Suspensions	3,283
Withdrawals	272
TOTAL	31,367

2.2.3 Reclamation

The PA initiates reclamation according to the Thousands-Block Central Office Code Administration Guidelines (TBCOCAG), which directs that, “[a] thousands-block assigned to a service provider should be placed into service by the applicable activation deadline, that is, six-months after the original effective date returned on the Part 3A and entered on the BCD/BCR screen in BIRRDs.” Each thousands-block assignment has an associated “Part 3A effective date,” which is the date the individual numbers in the thousands-block become available to be assigned to customers. The thousands-block holder confirms that the thousands-block is in service by submitting a Part 4A to the PA. If the PA does not receive the Part 4A during the first five months following the original effective date identified on the Part 3A, the PA sends a reminder notice to the thousands-block holder. The PA also sends a second reminder to the service provider (SP) on the day after the Part 4A is due.

If the Part 4A is not received within six-months of the original Part 3A effective date, the Part 4A is considered delinquent and the thousands-block is eligible to be reclaimed. By the 10th calendar day of each month, the PA sends a list of delinquent Part 4As for the thousands-blocks from the

previous month to the appropriate state commission or the FCC¹. This includes Part 4As that are new to the list and those that were carried over from previous months until they are resolved. The PA website provides more detailed information about the reclamation process, as well as service provider contact information for the participating state commission and FCC.

The PA sent 378 monthly reports to regulatory staff to address a total of 4,082 thousands-blocks on the overdue Part 4/4A reports in 2020. Of those, 1,654 thousands-blocks were new.

The PA cannot reclaim a thousands-block without authorization from the appropriate regulatory body, which may authorize the PA to initiate thousands-block reclamation, but also may then halt the reclamation process if, for example, it is determined that numbers in the thousands-blocks are actually in service. In 2020, regulators authorized the PA to initiate reclamation on 23 thousands-blocks. Of those, five thousands-blocks were actually reclaimed: two in Georgia, and three in Iowa. Table 2-12 depicts all 2020 reclamation activity:

**Table 2-12
Reclamation Activity**

Month	Total Number of Thousands-blocks with Overdue Part 4As	Total Number of NEW thousands-blocks with Overdue Part 4As	Total Number of Thousands-blocks for which Reclamation was Initiated ²	Total Number of Thousands-blocks Reclaimed
January	366	204	2	0
February	396	185	1	0
March	425	194	1	0
April	464	211	0	0
May	383	160	2	0
June	317	118	7	0
July	245	62	5	0
August	306	132	0	2
September	344	142	1	3
October	298	112	1	0
November	289	89	1	0
December	249	45	2	0
TOTAL	4,082	1,654	23	5

¹ The FCC Report and Order and Further Notice of Proposed Rulemaking released March 31, 2000 (1st NRO Order) delegated authority to the state commissions to determine whether a thousands-block should be reclaimed or not. The FCC makes reclamation decisions for those states that have opted not to exercise their reclamation authority.

² While a state may authorize the PA to initiate thousands-block reclamation, not all thousands-blocks in this category have been reclaimed. In some cases, the reclamation process is halted if it is determined that the thousands-blocks are actually in service.

2.2.4 Pooling Administrator Help Desk

The Pooling Help Desk responds to both internal and external questions and requests for technical support and attempts to promptly confirm the cause of a problem. In 2020, the Help Desk handled approximately 371 calls. For more details on the Help Desk see Section 8.6.1.

2.3 Pooling Administration System (PAS)

2.3.1 PAS Performance

PAS was available for use **100%** of scheduled time during 2020 and continued meeting the performance metric of a minimum of 99.9% scheduled uptime. There were five builds and maintenance that used a total of three hours 33 minutes of scheduled down time. Actual availability including scheduled and approved downtime was 99.96%. Two PAS trouble tickets were opened and closed. For details on PAS performance see Section 6.

2.3.2 PAS Change Orders

Changes and improvements to PAS are generally driven by changes to FCC rules, industry guidelines, or specific service provider or regulatory requests. If changes or suggested improvements require a change to PAS, we submit a change order proposal to the FCC to modify the contract. The PA must provide a written assessment regarding the impact of scope of work, time and costs to the INC, the NANC and the FCC within 30 days of initial closure of any changes to the INC Guidelines that have such an impact.³ The NAOWG reviews PA change order proposals and provides recommendations to the FCC.

The PA submitted no change orders in 2020.

2.3.3 PAS Training Videos

Our training videos were first made available on our website for PAS on September 29, 2010. The “New-to-Pooling - Quick Start” video continues to be the most viewed. The PA did not add any new videos in 2020.

2.4 Data Quality and Pooling Implementation Management

The PA manages the quality control and maintenance of the rate center data located on the website, completes the semi-annual forecasting reports, updates PAS in the event of area code relief, and provides status updates for the industry at NANPA meetings. The PA also managed

³ FCC contract No. 273FCC19C0002, Section 2.5.4 of Attachment 1.

quarterly neutrality audits. In 2020, the PA attended 17 NANPA meetings, and provided 35 pooling status reports to the NANPA for its meetings.

2.4.1 Rate Center Data Quality Control and Maintenance

The NPA/Rate Center Reports identify the pooling participation level status designation of all rate centers in each NPA, including where service providers are either required to participate in pooling (Mandatory), are required to participate when a second service provider enters the rate center (Mandatory Single Service Provider), where pooling is not required, but either the state or a carrier has requested that the rate center be opened in PAS (Optional), or where no carrier has chosen to pool (Excluded).

2.4.1.1 Rate Center Information Changes

The PA is responsible for the accurate recording of all pooling information associated with every NPA, including the status designation for each rate center. For the detailed definitions of rate center status designations, see Section 3.

In addition, the PA monitors and makes all of the changes that occur as a result Office of Management and Budget (OMB) directives related to population changes that affect pooling rate center designations. The PA found one OMB directive in 2020 that did not affect rate center designations and therefore made no associated changes.

Changes to rate center file information are available in real-time through the pooling website. In 2020, the PA made 212 rate center information changes. All 212 were rate center status designation changes, of which 81% were from Excluded (X) to Optional (O).

Table 2-13 shows the type of rate center information change and how many were changed during each month in 2020.

Table 2-13
Summary of Rate Center File Changes

REASON	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
<i>Changes in Status:</i>													
M* to M	0	3	3	0	3	8	14	2	24	10	1	2	70
M* to M	3	3	1	4	11	6	2	3	11	28	4	0	76
X to O	0	17	6	0	23	3	6	1	2	3	0	5	66
X to M*													0
X to M*													0
O to M*													0
M to M													0
M to M*													0
New Rate Centers													0
Rate Centers with MSA updates													0
MSA Changes													0
TOTALS	3	23	10	4	37	17	22	6	37	41	5	7	212

2.4.2 NRUF/Semi-Annual Forecast Report

The NRUF (Numbering Resource Utilization/Forecasting) report (Form 502) is used by NANPA to monitor and project exhaust in individual area codes as well as in the NANP overall. Service providers participating in pooling are required to submit their respective NRUFs to the NANPA on a semi-annual basis on or before February 1 for the period ending on December 31, and on or before August 1 for the period ending on June 30 of each year. Service providers also submit their thousands-block *Forecast Report* to the PA for each of their separate Operating Company Numbers (OCNs) at the thousands-block level, per rate center, for every NPA in which they have resources, as of June 30 and December 31, each year. This semi-annual report includes a five-year forecast of demand for thousands-blocks by year. The data provided by the individual service providers in these forecasts is treated as confidential by the PA. The PA then uses this data to fulfill two Contract Data Requirements List (CDRL) report requirements:

- the Semi-Annual Pooling Forecast referenced in Section 5.6.2.1, and
- the Rate Area Inventory Pool Status Report referenced in Section 5.6.2.2.

During 2020, the PA aggregated the data provided by the service providers at the rate center level for all NPAs in pooling. We used this data to provide a rate center level PA NRUF to NANPA and to determine if a critical industry inventory insufficiency existed within any rate center. The PA forwarded its aggregated NRUF data to the NANPA and provided a separate consolidated forecast report to the FCC according to the required deadlines, on February 15 and August 9.

Table 2-14 contains the PA NRUF/forecast results for both semi-annual reporting periods in 2020.

**Table 2-14
NRUF/Forecast Results**

Date	NPAs	Jurisdictions	Thousands- blocks Forecasted	Thousands- blocks Available	Codes Forecasted
February	323	52	40,323	127,914	3,247
August	325	52	31,865	127,917	2,296

2.5 Regulatory and Compliance

2.5.1 Regulatory Support

The PA supports state regulators throughout the year by providing education on pooling processes, website navigation and responding to hundreds of emails and telephone inquiries. Inquiries relate to such issues as application processing, state waiver rules, service provider authorization, iVoIP processes, and reclamation. The PA also continued to provide support for state regulators as they addressed number conservation and NPA relief planning issues by attending NANPA meetings relating to NPA relief and jeopardy procedures and supporting NANPA with NPA exhaust projections and state notifications.

In 2020, the PA facilitated four virtual meetings to update state regulators on NANPA, PA, p-ANI and federal activities related to numbering. Topics included updates on NPA Relief Planning, NRUF, NANPA, Pooling and P-ANI administrator processes and activity, iVoIP provider processes, updates to PAS and RNAS, relevant INC issues, robocall prevention, and the transition to 10-digit-dialing for the three-digit abbreviated 988 code to reach the national Suicide Prevention Lifeline.

The PA also conducted five educational virtual meetings about pooling processes for state regulatory staff. The goal in conducting these sessions for regulators is to make it easier for them to respond to numbering issues in their states. During the educational sessions, the PA reviewed various numbering procedures such as applications processing, reclamation, forecasting, and

iVoIP requirements and activity, as well as information about reports available through the websites. In addition, the PA participated as a panelist for a webinar entitled, “May I have another number please sir!” and hosted by the National Regulatory Research Institute (NRRI) on November 18. The webinar explored numbering processes, who is requesting numbering resources and for what purpose, as well as any possible new services that may need a telephone number.

2.5.2 Debt Collection Improvement Act of 1996, FCC 04-72, MD Docket 02-339, adopted March 25, 2004 (Red Light Rule)

The “Red Light Rule” provides that anyone filing an application or seeking a benefit from the FCC or one of its components (including the Universal Service Administrative Corporation, the Telecommunications Relay Service, or the North American Numbering Plan Administrator) who is delinquent in debts owed to the FCC will be barred from receiving a license or other benefit until the delinquency has been resolved. The FCC determined that numbering resources constitute a benefit and has directed the PA to withhold assignment of numbering resources to any entity identified by the FCC as delinquent in its payments to them.

The PA processed 219 denials as a result of the Red-Light Rule in 2020.

2.5.3 Reporting Compliance

The PA contract and TRD directs that certain Contract Data Requirements List (CDRL) and other reports be submitted each year. For details on all reports completed by the PA, see Section 9.

2.5.3.1 Contract Data Requirements List (CDRL) – Recurring Reports

The following CDRL reports are submitted annually, semi-annually, quarterly, or monthly. Table 2-15 contains the CDRL recurring reports that were submitted by the PA during the 2020 calendar year according to the established deadlines. In 2020, the PA submitted 211 CDRL reports, which are available on the PA website⁴. For further reporting details, see Section 9.

**Table 2-15
Recurring CDRL Reports Submitted in 2020**

Report Name	Total Reports
Staffing Report	12
Thousands-block Pooling Report	12
P-ANI Monthly Report	12
PAS and RNAS Performance Report	12

⁴ The By-Request (Ad Hoc) reports total is an aggregate of individual reports requested by and provided to customers, so they are therefore not posted the website.

Report Name	Total Reports
Ad Hoc Reports	12
Pooling Matrices Report	4
Forecasted Demand	2
Rate Area Inventory Pool Status	2
Annual	1
By Request (Ad Hoc)	142
TOTAL	211

2.5.3.2 Other TRD Required Reports

Table 2-16 lists the 16 other reports required by the contract that the PA completed in 2020.

**Table 2-16
Other Required Reports Submitted in 2020**

Report Name	Total Reports
Monthly Pooling Metrics	12
Inventory	4
TOTAL	16

2.6 Special Projects

2.6.1 Seeking Voluntary Disconnects

In a proactive effort to prevent the unnecessary opening of CO codes, we developed a process beginning in late May 2010 that could conserve numbers in rate centers when an incoming SP requests that the rate center designation be changed from “Excluded” to “Optional”. In this circumstance, we seek voluntary thousands-block disconnects from existing SP(s) in that rate center so that the incoming SP can request thousands-blocks instead of opening a new CO code. The process of requesting thousands-blocks involves verifying which SPs presently operate in the rate center, getting the contact information for them, and then sending each of them emails, which takes the PA a lot of extra time.

During 2020, the PA attempted to secure voluntary thousands-block disconnects (formerly donations) for 57 rate centers being changed from Excluded to Optional. The PA was able to obtain disconnects (formerly donations) for 26 of those rate centers, thereby potentially saving the opening of 26 CO codes.

At times a carrier will also contact us to request that we seek disconnects in a pooling rate center it is entering to prevent the opening of an CO code when no thousands-blocks are available because it is either a single-service provider rate center or it is already available for

pooling. This is especially useful in low population areas where thousands-blocks added to the pool from opening an CO code that may never be utilized. In 2020, we were asked by the carriers to request voluntary thousands-block disconnects in 72 optional pooling rate centers that did not have any available thousands-blocks. We requested and received disconnects for 40 of the rate centers which saved 40 CO codes from being opened.

2.6.2 Abandoned Codes/Thousands-blocks:

When the PA ascertains that a company has abandoned pooled codes and thousands-blocks, the PA contacts other carriers with ports on that code or thousands-block to take them over or if no carrier volunteers, works with state regulators to obtain permission to reclaim the numbering resources as abandoned. This requires considerable extra work by the PA. The PA also works with NANPA for pooled code reclamation and the NPAC to disconnect any LRNs or ported TNs from the NPAC for these companies. If there are customers on the codes or thousands-blocks, NANPA seeks new code holders so that customers are not put out of service.

The following is a summary of abandoned code/thousands-block activity for this period:

- 6 companies in 7 states abandoned pooled codes and/or thousands-blocks
- 58 emails were sent out looking for new code or thousands-block holders
- 22 pooled codes were transferred to new code holders
- 23 thousands-blocks were transferred to new thousands-block holders
- 289 thousands-blocks were disconnected and put back into the available pools

2.6.3 PA Support for NANPA's Project to Transition to Ten-Digit Dialing for the abbreviated 988 Code for the National Suicide Prevention Lifeline

On July 16, 2020, the FCC adopted Report and Order (FCC 20-100), requiring NANPA to develop, based on input from covered providers, an implementation schedule, for multiple NPAs to transition to 10-digit dialing related to the designation of 988 as the three-digit abbreviated dialing code to access the National Suicide Prevention Lifeline. The PA assisted NANPA with its responsibilities to fulfill the required milestones for this project, including attending meetings and drafting notes, acquiring contact lists for alarm and fire associations, telecom associations, 911 providers and PSAPs, payphone providers, senior organizations, elevator agencies, tribal agencies, highway call boxes, directory publishers and TTY providers, and drafting and sending special letters to those groups. The PA also provided extensive regulatory support, supplying information on the affected 83 NPAs in 37 states, drafted a "Frequently Asked Questions" (FAQs) document and special customer education letter for commissioners and customer service staff, and responded to numerous inquiries from regulators.

2.7 Routing Number Administrator (a/k/a P-ANI)

2.7.1 P-ANI Administrator (RNA) Productivity:

The P-ANI Administrator (RNA) processes not only p-ANI applications but carriers' annual reports and forecasts. The forecasts are used to develop the P-ANI Activity and Projected Exhaust Report found herein in Appendix 1. We processed annual report files for 72 unique NENA ID/OCN combinations. Table 2-17 addresses the count of p-ANIs requested, assigned, returned, or modified on a monthly basis. This is not to be confused with the number of applications processed.

Table 2-17
Total Number of p-ANIs by Activity Type

	REQUESTED	ASSIGNED	RETURNED	MODIFIED
Jan	1,413	1,383	16	0
Feb	3,003	3,003	23	0
Mar	948	938	215	2
Apr	1,936	1,861	215	0
May	318	318	56	0
Jun	1,920	1,920	16	0
Jul	1,451	1,447	23	2
Aug	7,294	7,294	30	1
Sep	1,235	1,235	51	0
Oct	3,714	3,714	39	1
Nov	543	537	35	0
Dec	398	398	10	0
TOTAL	24,173	24,048	729	6

Table 2-18
Applications Processed by Request Type

	Approved	Denied	Suspended	Withdrawn	Total
Cancel p-ANI Return Request	1	0	0	0	1
P-ANI Modification Request	6	0	0	0	6
New p-ANI Request	1,281	1	0	8	1,290
P-ANI Return Request	729	0	0	0	729
TOTAL	2,017	1	0	8	2,026

The following table is a summary of p-ANI inventory as of December 31, 2020:

**Table 2-19
P-ANI Inventory**

STATUS	TOTAL p-ANIs	211	511
Assigned	984,895	412,282	572,613
Aging	198	28	170
Available	5,536,743	2,841,283	2,695,460
Unavailable	18,164	16,407	1,757
TOTALS	6,540,000	3,270,000	3,270,000

2.7.2 Other P-ANI Administrator Activities

In addition to processing requests for p-ANI ranges, the RNA performed many other functions during 2020.

2.7.2.1 Annual Report

P-ANI Assignees are required to report to the RNA on all of their assigned p-ANI ranges via the P-ANI Annual Report on an annual basis. For 2020, there were 72 unique NENA ID and OCN combinations that filed an Annual Report. During this process, the RNA was able to identify p-ANI ranges that were never reported during the initial reports filing and show those p-ANI ranges as assigned. The RNA also worked with the carriers to identify p-ANI ranges that were not in use and could be returned to the available inventory as a result of this filing.

2.7.2.2 Duplicate Assignment Issues

In 2020, the RNA was notified of 45 p-ANI ranges that had been assigned by the RNA but appeared to already be in use by another carrier. The RNA worked with the affected carriers to determine if the ranges were in use or not. If the range was not being used, it was removed from the applicable routing databases by the old carrier so that the new carrier could use the range. If the range was in use, the RNA replaced the assignment with a new range, and updated the RNAS to reflect that the original range had been assigned. The RNA also advised the carrier that reported it as being available to update its records so that the range would be properly reflected in its next annual report. The original assignment would have occurred prior to our assumption of assignment responsibility.

2.7.2.3 Customer Support

For all new p-ANI requests, a carrier must demonstrate that its company is permitted under applicable law to access p-ANI resources in the area for which the p-ANI resources are sought. If the carrier fails to provide the correct documentation with its request for p-ANIs, the RNA sends a courtesy email. The RNA also assists carriers who are having difficulties locating the correct documentation to help alleviate any delays in obtaining these critical resources. In 2020, the RNA sent courtesy emails for 75 requests. In addition, the RNA provided documents for 39 requests.

2.7.2.4 P-ANI Activity and Projected Exhaust Report

The INC developed the P-ANI Administration Guidelines, which contain the following language:

“The RNA shall:

- a) prepare and publish a “P-ANI Activity and Projected Exhaust Report” that includes the following information:
 1. national p-ANI utilization information.
 2. p-ANI utilization by NPA.
 3. the number of p-ANIs requested on a monthly basis.
 4. the number of p-ANIs assigned on a monthly basis.
 5. the number of p-ANIs returned on a monthly basis.
 6. the number of p-ANIs modified on a monthly basis.
 7. the number of p-ANI requests processed and the disposition of each.
 8. forecast reports for projected future p-ANI resource usage.”

This report contains the required information for January 1 through December 31, 2020 and contains the following tables:

- Table 1-1 addresses the number of p-ANIs requested, assigned, returned, or modified on a monthly basis.
- Table 1-2 addresses requests processed and the disposition of each: and
- Table 1-3, 1-4, and 1-5 addresses national p-ANI utilization, p-ANI utilization by NPA, location and exhaust year.

The P-ANI Activity and Projected Exhaust Report can be found on the website www.nationalpani.com under REPORTS and in Appendix 1 at the end of this section. We also

notified the INC and RNAS users that the information was available and included it in the subsequent annual report required by the FCC contract.

Table 2-20 below contains the first five NPAs that are projected to exhaust 211/511/p-ANIs as of December 31, 2020.

Table 2-20
p-ANIs Top 5 NPAs for the Projected Exhaust of 211/511

NPA	State	Total p-ANIs	Forecasted P-ANIs	Exhaust Date
708	IL	9,009	1,080	1Q2026
847	IL	5,737	1,280	1Q2027
618	IL	10,957	400	3Q2039
224	IL	9,538	380	3Q2044
973	NJ	11,423	280	3Q2047

For a complete list of Projected Exhaust of 211/511 p-ANIs by NPA, Projected Exhaust of 211/511 p-ANIs by State, and Projected Exhaust of 211/511 p-ANIs by Year, see Appendix 1 at the end of this report.

2.7.3 Routing Number Administration System (RNAS)

The Routing Number Administration System (RNAS) is the first national P-ANI database and is vitally important to our customers for obtaining e9-1-1 resources. Because RNAS stores all of the information relating to p-ANI administration and provides many essential reporting features that generally contain real-time data, its reliability is essential.

RNAS was available for use **100%** of scheduled time for 2020 and continued meeting the RNAS performance metric of a minimum of 99.9% scheduled uptime. RNAS had maintenance three times after business hours using two hours 14 minutes of the FCC-approved scheduled downtime. Actual availability for RNAS in 2020, including scheduled and approved downtime was 99.97%. The RNA opened no trouble tickets for RNAS in 2020. For more details on RNAS performance see Section 6.

2.7.4 Routing Number Administrator (RNA) Help Desk

The Routing Number Administrator (RNA) serves as the P-ANI Administrator Help Desk, and processes new user registrations and user profile updates, responds to p-ANI-related questions, as well as responding to questions regarding RNAS user accounts and passwords. In 2020, the p-ANI Administrator Help Desk processed 55 new user registration requests, of which 43 were approved and 12 were denied; 18 profile update requests, of which 17 were approved and 1 was

denied, and handled approximately 61 phone calls. For further details on RNA Help Desk, see Section 8.6.2.

2.7.5 RNAS Training Videos

In 2016, the RNA developed nine training videos for service providers and service provider consultants about requesting new p-ANIs and managing existing p-ANI assignments and continues to provide these videos today. The “Create Modify p-ANI Forecasts” continues to be the most viewed video. There were no new videos in 2020.

2.8 PA and RNA Continued Focus on Outstanding Customer Satisfaction

The PA and RNA are constantly focused on customer satisfaction. We strive to respond affirmatively to our customers’ questions and suggestions for improvement, while meeting or exceeding contract requirements. A strong indication of our firm commitment to customer satisfaction is that we not only had no formal complaints in 2020 but met all performance measurements while processing a record number of applications during the pandemic. Others include:

- Processing 100% of the Pooling and p-ANI Applications (Part 3As) on time
- Posting Pooling and p-ANI Tips
- 100% PAS and RNAS scheduled availability
- Exceeding Reporting Requirements for Responding to Requests for Ad Hoc Reports
- Providing education through one-on-one support or website videos
- Resolving p-ANI Range Discrepancies
- NANPA support for the 988 10-digit dialing transition

In addition, PA and RNA reported a total of 187 customer focus items to the NAOWG in 2020. For more information, see Section 8.3

Section 3 - Identification of Existing and Potential Pooling Areas

In this section, Pooling Administration (PA) discusses the number of existing pooling areas. As of December 31, 2020, there are 16,732 distinct pooling rate centers (i.e., pooling areas), which constitute 90.5% of the 18,484 distinct rate centers. While pooling is available in all states, the District of Columbia and Puerto Rico, not all states have mandatory pooling, either by FCC rule or delegated authority. North Dakota, South Dakota and Wyoming have no mandatory pooling rate centers.

While we cannot speculate about “potential” pooling areas, there are currently 1,752 rate centers in which no carrier is pooling and could therefore be considered “potential” pooling areas.

The PA designates each rate center according to one of the following definitions:

1. **Mandatory (M)** - This rate center is located in a top-100 MSA and service providers with numbering resources in this rate center that have not been granted a specific exemption must pool in this rate center.
2. **Mandatory State (M)** - Pooling was implemented in this rate center pursuant to a state commission order. This rate center is not in a top-100 MSA, but has one or more pooling-capable service providers, and is considered a mandatory pooling rate center.
3. **Mandatory Single Service Provider (M*)** - This rate center is located in a top 100 MSA but has only one service provider that has numbering resources. This rate center will be considered optional under these conditions and designated as M*. When a second service provider receives numbering resources in this rate center, the designation will be changed to M for Mandatory.
4. **Mandatory State Single Service Provider (M*)** - Pooling has been implemented in this rate center pursuant to a state commission order. This rate center is not in a top 100 MSA and has only one service provider that has numbering resources. This rate center will be considered optional under these conditions and designated as M*. When a second service provider receives numbering resources in this rate center, the designation will be changed to M for Mandatory State.
5. **Optional (O)** - This rate center is not in a top 100 MSA and any service provider with numbering resources in this rate center may elect to pool at its option. Service providers may voluntarily participate in thousands-block number pooling in an Optional rate center outside the top 100 MSAs.
6. **Excluded (X)** - This rate center is not in a top-100 MSA and no service provider is currently

participating in pooling. This rate center is not included in the Pooling Administration System (PAS).

3.1 Identification of Existing and Potential Pooling Areas

Table 3-1 below identifies the 16,732 distinct pooling rate centers (*i.e.*, pooling areas), and their status designations, by state, as of December 31, 2020. Pooling rate centers are identified as either “mandatory” or “optional.” Rate centers with a designation of “excluded” are not considered pooling areas.

Table 3-1
Summary of all Rate Centers by Status Designation

State	Mandatory (M)	Mandatory State (M)	Optional	Mandatory Single SP(M*)	Mandatory State Single SP (M*)	Excluded	Total
AK		76			184		260
AL	58	85	135		1	20	299
AR	46		285	1		48	380
AZ	44		69	3		14	130
CA	440	83	179	14		23	739
CO	20	5	136	3		44	208
CT	74	15					89
DC	1						1
DE	8		22				30
FL	129	14	124			1	268
GA	77		242	3		37	359
HI	1		5				6
IA	77	63	452	24		195	811
ID	16	93		3	33		145
IL	237		642	15		90	984
IN	220	263	15	5	19	3	525
KS	74		356	19		125	574
KY	47	145	137		18	25	372
LA	64		204	2		7	277
MA	234	30	2				266
MD	112	53					165
ME	50	101	93			5	249
MI	228	110	289	1	3	3	634
MN	62		429	1		146	638
MO	139	455		19	108		721

State	Mandatory (M)	Mandatory State (M)	Optional	Mandatory Single SP(M*)	Mandatory State Single SP (M*)	Excluded	Total
MS	43	92	88	6	6	4	239
MT		153			107		260
NC	151	17	241	7		15	431
ND			128			171	299
NE	28	175	170	4	74		451
NH	32	92	24				148
NJ	187		21				208
NM	6		87	1		60	154
NV	25		48			23	96
NY	407	261	79				747
OH	380	163	162	3		31	739
OK	115	15	210	25		164	529
OR	36	103	76			40	255
PA	415	347	12		2		776
PR	49		35				84
RI	25						25
SC	112		123			5	240
SD			109			160	269
TN	122		190	5		23	340
TX	310	7	739	23		198	1277
UT	33	1	51	10		37	132
VA	125	178	66				369
VT		101	40				141
WA	54	150	1	3	15		223
WI	129	317	121	9	26		602
WV	7	156	60			5	228
WY			62			30	92
Grand Total	5,249	3,919	6,759	209	596	1,752	18,484

3.2 Summarized Information about Existing and “Potential” Pooling Areas

Table 3-2 below is a breakdown of the total number and percentage of rate centers that are available for pooling, as well as the percentage by pooling status designation.

Table 3-2
Summarized Information about Existing and “Potential” Pooling Areas

Total Number of Distinct Rate Centers Available for Pooling	16,732
Percentage of Distinct Rate Centers Available for Pooling	90.5%
Total Number of Mandatory (M and M) Distinct Rate Centers	9,168
Percentage of Distinct Rate Centers that are Mandatory	49.6%
Total Number of Distinct Mandatory Single-Service Provider (M*and M*) Rate Centers	805
Percentage of Distinct Rate Centers that are Mandatory Single-Service Provider	4.3%
Total Number of Distinct Optional Rate Centers	6,759
Percentage of Distinct Rate Centers that are Optional	36.5%
Total Number of Distinct Rate Centers Excluded from Pooling	1,752
Percentage of Distinct Rate Centers that are Excluded from Pooling	9.4%
Total Number of Distinct Rate Centers	18,484

Section 4 - Aggregated Total by Pool of the Service Providers Participating in the Pooled Areas

Following is a list of the aggregated total by pool of the service providers participating in the pooled areas in 2020. There are 1,138 distinct service providers* participating in 16,732 distinct pooled rate centers in 239 NPA and NPA complexes covering 52 jurisdictions -- 50 states, the District of Columbia, and Puerto Rico.

* This count of distinct service providers consolidates all Operating Company Numbers (OCNs) for a single company under one parent company.

Table 4-1
Aggregated Total by Pool of the Service Providers Participating in the Pooled Centers

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
201/551	60	22
202	50	1
203/475	42	32
205/659	57	37
206	50	4
207	61	50
208/986	64	19
209	47	28
210/726	49	1
212/332/646/917	70	1
213/323	57	15
214/469/972	82	43
215/267/445	65	36
216	45	4
217	46	17
218	52	0
219	39	38
220/740	49	63
223/717	63	61
224/847	46	41
225	41	34
228	36	0
229	36	0
231	43	20

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
234/330	53	78
239	38	7
240/301	71	42
248/947	44	20
251	48	15
252	39	14
253	37	10
254	49	10
256/938	52	5
260	34	49
262	42	45
269	46	26
270/364	60	7
272/570	64	72
276	46	0
279/916	52	16
281/346/713/832	70	45
302	39	8
303/720	57	8
304/681	52	7
305/786	61	5
307	36	0
308	35	0
309	50	0

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
310/424	51	16
312/872	51	1
313	46	6
314	38	7
315/680	59	74
316	38	14
317/463	50	36
318	37	0
319	49	0
320	52	25
321	37	5
321/407/689	58	17
325	38	0
326/937	53	83
331/630	43	25
334	51	1
336/743	62	62
337	36	1
339/781	39	40
341/510	47	13
347/718/917/929	62	11
347/718/929	43	2
351/978	43	58
352	42	17
360/564	62	26
361	45	1
380/614	48	16
385/801	39	19
386	44	15
401	36	25
402/531	67	32
404/470/678	59	1
405	48	63
406	52	0
408/669	54	11
409	44	12
410/443/667	68	70
412/878	52	23

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
413	39	48
414	37	4
415/628	58	14
417	54	1
419/567	57	52
423	55	18
425	35	14
430/903	60	34
432	32	1
434	41	7
435	38	24
440	45	62
442/760	60	62
458/541	53	1
470/678/770	61	37
478	44	2
479	32	0
480	38	1
484/610	64	77
501	36	37
502	44	26
503/971	62	35
504	38	5
505	45	3
507	49	16
508/774	44	68
509	64	3
512/737	62	25
513	45	25
515	52	28
516	55	11
517	56	27
518/838	73	54
520	44	20
530	58	25
534/715	85	25
539/918	57	69
540	60	32

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
559	45	38
561	51	7
562	47	9
563	45	0
571/703	58	19
573	51	28
574	44	1
575	38	4
580	42	8
585	50	59
586	38	11
601/769	50	25
602	34	1
603	49	32
605	43	0
606	42	4
607	53	10
608	75	53
609/640	55	21
612	48	1
615/629	52	49
616	48	36
617/857	54	20
618	44	77
619/858	51	19
620	64	37
623	30	1
626	48	10
631/934	52	53
636	37	45
641	47	33
650	45	15
651	48	8
657/714	53	13
660	48	23
661	56	29
662	50	24
682/817	56	24

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
701	52	0
702/725	47	16
704/980	51	47
706/762	71	40
707	54	14
708	40	31
712	63	40
716	61	39
719	52	15
724/878	56	137
727	44	5
731	43	0
732/848	54	36
734	51	33
747/818	46	16
754/954	50	5
757	42	26
763	51	10
765	56	53
772	42	1
773/872	48	10
775	39	9
779/815	62	50
785	56	15
787/939	15	49
802	37	0
803/839	61	44
804	46	41
805/820	59	18
806	40	0
808	23	1
810	39	28
812/930	63	48
813	57	8
814	61	9
816	51	54
828	43	1
830	47	48

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
831	47	8
843/854	52	22
845	70	65
850	46	0
856	54	29
859	45	10
860/959	39	42
862/973	72	41
863	49	12
864	50	46
865	45	29
870	44	10
901	46	14
904	48	17
906	25	0
907	22	0
908	57	38
909	52	21
910	46	1
912	54	0

NPA/NPA COMPLEX	Pooling OCNs	Pooled Rate Centers
913	48	27
914	57	28
915	33	11
919/984	56	33
920	67	11
925	45	17
928	50	24
931	45	17
936	46	22
940	59	25
941	48	8
949	47	7
951	47	20
952	43	3
956	40	13
970	48	0
979	50	18
985	35	26
989	51	22

Section 5 – 2020 Forecast Results and a Review of Forecasts versus Actual Thousands-Block Assignments

This section identifies forecast results by NPA and contains a review of forecasts compared to actual thousands-block assignments for the current year and the previous years, as specifically required by the contract.

HIGHLIGHTS OF 2020 FORECAST DATA
There were forecasts in 239 NPA and NPA complexes;
11,792 distinct rate area with forecasts;
134,203 forecasted thousands-blocks;
74,078 thousands-blocks assigned; and
55.20% of the thousands-blocks forecasted were assigned.

In 2020, 134,203 thousands-blocks were forecasted, and 74,078 thousands-blocks were assigned in 239 NPA and NPA complexes. This resulted in 55.20% of the forecasted thousands-blocks being assigned.

Carriers forecasted a need for thousands-blocks in 11,792 of the 16,732 pooling rate centers, or in 70% of them. In 4,940 pooling rate centers, no thousands-blocks were forecasted during 2020.

Table 5-1 below depicts the percentage of thousands-blocks forecasted versus actual thousands-block assignment by NPA or NPA Complex.

**Table 5-1
Forecasted versus Actual Thousands-Block Assignments by NPA Complex for 2020**

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
201/551	NJ	655	336	51.30%
202	DC	524	299	57.06%
203/475	CT	764	313	40.97%
205/659	AL	1,053	620	58.88%
206	WA	460	196	42.61%
207	ME	784	443	56.51%
208/986	ID	723	417	57.68%
209	CA	1,001	532	53.15%
210/726	TX	499	264	52.91%
212/332/646/917	NY	773	250	32.34%
213/323	CA	947	501	52.90%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
214/469/945/972	TX	1,693	901	53.22%
215/267/445	PA	1,212	568	46.86%
216	OH	243	149	61.32%
217	IL	1,472	365	24.80%
218	MN	480	330	68.75%
219	IN	471	229	48.62%
220/740	OH	540	372	68.89%
223/717	PA	846	480	56.74%
224/847	IL	752	377	50.13%
225	LA	261	172	65.90%
228	MS	295	210	71.19%
229	GA	997	777	77.93%
231	MI	287	212	73.87%
234/330	OH	709	382	53.88%
239	FL	341	254	74.49%
240/301	MD	756	369	48.81%
248/947	MI	646	340	52.63%
251	AL	479	371	77.45%
252	NC	532	352	66.17%
253	WA	371	182	49.06%
254	TX	505	358	70.89%
256/938	AL	768	494	64.32%
260	IN	360	256	71.11%
262	WI	423	260	61.47%
269	MI	258	167	64.73%
270/364	KY	507	421	83.04%
272/570	PA	761	370	48.62%
276	VA	328	223	67.99%
279/916	CA	605	365	60.33%
281/346/713/832	TX	1,891	1017	53.78%
302	DE	475	329	69.26%
303/720	CO	821	400	48.72%
304/681	WV	1,024	620	60.55%
305/786	FL	613	357	58.24%
307	WY	315	215	68.25%
308	NE	275	170	61.82%
309	IL	1,057	371	35.10%
310/424	CA	389	183	47.04%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
312/872	IL	258	128	49.61%
313	MI	439	239	54.44%
314	MO	341	191	56.01%
315/680	NY	807	419	51.92%
316	KS	204	121	59.31%
317/463	IN	600	325	54.17%
318	LA	363	183	50.41%
319	IA	370	183	49.46%
320	MN	287	197	68.64%
321	FL	238	158	66.39%
321/407/689	FL	707	416	58.84%
325	TX	362	212	58.56%
326/937	OH	579	391	67.53%
331/630	IL	454	210	46.26%
334	AL	685	451	65.84%
336/743	NC	588	406	69.05%
337	LA	260	159	61.15%
339/781	MA	398	218	54.77%
341/510	CA	440	273	62.05%
347/718/917/929	NY	3,421	500	14.62%
347/718/929	NY	655	54	8.24%
351/978	MA	409	237	57.95%
352	FL	457	332	72.65%
360/564	WA	660	353	53.48%
361	TX	285	148	51.93%
380/614	OH	559	285	50.98%
385/801	UT	797	424	53.20%
386	FL	305	227	74.43%
401	RI	316	203	64.24%
402/531	NE	574	392	68.29%
404/470/678	GA	768	416	54.17%
405	OK	519	301	58.00%
406	MT	449	306	68.15%
408/669	CA	335	213	63.58%
409	TX	373	297	79.62%
410/443/667	MD	952	492	51.68%
412/878	PA	572	280	48.95%
413	MA	420	295	70.24%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
414	WI	291	163	56.01%
415/628	CA	401	160	39.90%
417	MO	535	339	63.36%
419/567	OH	619	417	67.37%
423	TN	371	218	58.76%
425	WA	472	221	46.82%
430/903	TX	763	520	68.15%
432	TX	303	202	66.67%
434	VA	473	318	67.23%
435	UT	287	194	67.60%
440	OH	295	146	49.49%
442/760	CA	1,045	602	57.61%
458/541	OR	552	345	62.50%
470/678/770	GA	2,025	864	42.67%
478	GA	407	333	81.82%
479	AR	539	379	70.32%
480	AZ	608	270	44.41%
484/610	PA	816	474	58.09%
501	AR	787	489	62.13%
502	KY	445	249	55.96%
503/971	OR	610	376	61.64%
504	LA	266	174	65.41%
505	NM	451	278	61.64%
507	MN	622	387	62.22%
508/774	MA	720	371	51.53%
509	WA	691	325	47.03%
512/737	TX	910	588	64.62%
513	OH	366	183	50.00%
515	IA	443	234	52.82%
516	NY	663	211	31.83%
517	MI	311	157	50.48%
518/838	NY	2,109	507	24.04%
520	AZ	487	324	66.53%
530	CA	432	270	62.50%
534/715	WI	459	320	69.72%
539/918	OK	625	406	64.96%
540	VA	668	400	59.88%
559	CA	495	252	50.91%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
561	FL	603	407	67.50%
562	CA	409	236	57.70%
563	IA	276	157	56.88%
571/703	VA	711	415	58.37%
573	MO	497	345	69.42%
574	IN	288	172	59.72%
575	NM	329	243	73.86%
580	OK	323	198	61.30%
585	NY	555	238	42.88%
586	MI	209	92	44.02%
601/769	MS	631	451	71.47%
602	AZ	524	188	35.88%
603	NH	355	208	58.59%
605	SD	392	207	52.81%
606	KY	450	381	84.67%
607	NY	563	273	48.49%
608	WI	479	343	71.61%
609/640	NJ	611	390	63.83%
612	MN	376	193	51.33%
615/629	TN	599	326	54.42%
616	MI	312	180	57.69%
617/857	MA	581	282	48.54%
618	IL	1,429	414	28.97%
619/858	CA	787	509	64.68%
620	KS	389	287	73.78%
623	AZ	589	160	27.16%
626	CA	394	207	52.54%
631/934	NY	641	331	51.64%
636	MO	255	158	61.96%
641	IA	560	256	45.71%
650	CA	239	135	56.49%
651	MN	291	151	51.89%
657/714	CA	1,424	820	57.58%
660	MO	300	240	80.00%
661	CA	540	291	53.89%
662	MS	365	269	73.70%
682/817	TX	740	481	65.00%
701	ND	353	222	62.89%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
702/725	NV	478	269	56.28%
704/980	NC	794	462	58.19%
706/762	GA	912	725	79.50%
707	CA	515	366	71.07%
708	IL	348	168	48.28%
712	IA	349	183	52.44%
716	NY	696	237	34.05%
719	CO	601	340	56.57%
724/878	PA	545	365	66.97%
727	FL	320	207	64.69%
731	TN	201	105	52.24%
732/848	NJ	807	411	50.93%
734	MI	582	219	37.63%
747/818	CA	532	290	54.51%
754/954	FL	476	273	57.35%
757	VA	566	304	53.71%
763	MN	356	198	55.62%
765	IN	528	351	66.48%
772	FL	218	156	71.56%
773/872	IL	359	206	57.38%
775	NV	282	182	64.54%
779/815	IL	1,394	513	36.80%
785	KS	391	312	79.80%
787/939	PR	575	290	50.43%
802	VT	585	421	71.97%
803/839	SC	758	463	61.08%
804	VA	503	331	65.81%
805/820	CA	459	252	54.90%
806	TX	340	197	57.94%
808	HI	306	155	50.65%
810	MI	210	131	62.38%
812/930	IN	824	536	65.05%
813	FL	539	303	56.22%
814	PA	578	380	65.74%
816	MO	492	303	61.59%
828	NC	370	258	69.73%
830	TX	318	239	75.16%
831	CA	180	126	70.00%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
840/909	CA	702	404	57.55%
843/854	SC	642	398	61.99%
845	NY	1,311	334	25.48%
850	FL	666	392	58.86%
856	NJ	410	216	52.68%
859	KY	360	242	67.22%
860/959	CT	565	366	64.78%
862/973	NJ	716	377	52.65%
863	FL	257	192	74.71%
864	SC	649	337	51.93%
865	TN	278	182	65.47%
870	AR	723	492	68.05%
901	TN	440	229	52.05%
904	FL	470	324	68.94%
906	MI	160	117	73.13%
907	AK	135	38	28.15%
908	NJ	454	273	60.13%
910	NC	448	297	66.29%
912	GA	750	528	70.40%
913	KS	278	115	41.37%
914	NY	430	174	40.47%
915	TX	233	140	60.09%
919/984	NC	648	441	68.06%
920	WI	543	351	64.64%
925	CA	337	192	56.97%
928	AZ	693	455	65.66%
931	TN	319	196	61.44%
936	TX	405	306	75.56%
940	TX	317	226	71.29%
941	FL	222	172	77.48%
949	CA	586	363	61.95%
951	CA	500	283	56.60%
952	MN	294	108	36.73%
956	TX	682	403	59.09%
970	CO	492	285	57.93%
979	TX	368	254	69.02%
985	LA	231	120	51.95%
989	MI	324	233	71.91%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
Grand Total		134,203	74,078	55.20%

Table 5-2 shows the thousands-blocks forecasted versus actual thousands-block assignments by percent assigned, from lowest to highest, in each NPA or NPA Complex. The New York 347/718/929 NPA had the lowest percentage of thousands-blocks assigned compared to total forecast, at 8.24%, while Kentucky 606 NPA had the highest ratio at 84.67%.

Table 5-2
Forecasted versus Actual Thousands-Block Assignments by Percent Assigned
Listed from Lowest to Highest

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
347/718/929	NY	655	54	8.24%
347/718/917/929	NY	3,421	500	14.62%
518/838	NY	2,109	507	24.04%
217	IL	1,472	365	24.80%
845	NY	1,311	334	25.48%
623	AZ	589	160	27.16%
907	AK	135	38	28.15%
618	IL	1,429	414	28.97%
516	NY	663	211	31.83%
212/332/646/917	NY	773	250	32.34%
716	NY	696	237	34.05%
309	IL	1,057	371	35.10%
602	AZ	524	188	35.88%
952	MN	294	108	36.73%
779/815	IL	1,394	513	36.80%
734	MI	582	219	37.63%
415/628	CA	401	160	39.90%
914	NY	430	174	40.47%
203/475	CT	764	313	40.97%
913	KS	278	115	41.37%
206	WA	460	196	42.61%
470/678/770	GA	2,025	864	42.67%
585	NY	555	238	42.88%
586	MI	209	92	44.02%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
480	AZ	608	270	44.41%
641	IA	560	256	45.71%
331/630	IL	454	210	46.26%
425	WA	472	221	46.82%
215/267/445	PA	1,212	568	46.86%
509	WA	691	325	47.03%
310/424	CA	389	183	47.04%
708	IL	348	168	48.28%
607	NY	563	273	48.49%
617/857	MA	581	282	48.54%
219	IN	471	229	48.62%
272/570	PA	761	370	48.62%
303/720	CO	821	400	48.72%
240/301	MD	756	369	48.81%
412/878	PA	572	280	48.95%
253	WA	371	182	49.06%
319	IA	370	183	49.46%
440	OH	295	146	49.49%
312/872	IL	258	128	49.61%
513	OH	366	183	50.00%
224/847	IL	752	377	50.13%
318	LA	363	183	50.41%
787/939	PR	575	290	50.43%
517	MI	311	157	50.48%
808	HI	306	155	50.65%
559	CA	495	252	50.91%
732/848	NJ	807	411	50.93%
380/614	OH	559	285	50.98%
201/551	NJ	655	336	51.30%
612	MN	376	193	51.33%
508/774	MA	720	371	51.53%
631/934	NY	641	331	51.64%
410/443/667	MD	952	492	51.68%
651	MN	291	151	51.89%
315/680	NY	807	419	51.92%
864	SC	649	337	51.93%
361	TX	285	148	51.93%
985	LA	231	120	51.95%
901	TN	440	229	52.05%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
731	TN	201	105	52.24%
712	IA	349	183	52.44%
626	CA	394	207	52.54%
248/947	MI	646	340	52.63%
862/973	NJ	716	377	52.65%
856	NJ	410	216	52.68%
605	SD	392	207	52.81%
515	IA	443	234	52.82%
213/323	CA	947	501	52.90%
210/726	TX	499	264	52.91%
209	CA	1,001	532	53.15%
385/801	UT	797	424	53.20%
214/469/945/972	TX	1,693	901	53.22%
360/564	WA	660	353	53.48%
757	VA	566	304	53.71%
281/346/713/832	TX	1,891	1017	53.78%
234/330	OH	709	382	53.88%
661	CA	540	291	53.89%
317/463	IN	600	325	54.17%
404/470/678	GA	768	416	54.17%
615/629	TN	599	326	54.42%
313	MI	439	239	54.44%
747/818	CA	532	290	54.51%
339/781	MA	398	218	54.77%
805/820	CA	459	252	54.90%
763	MN	356	198	55.62%
502	KY	445	249	55.96%
314	MO	341	191	56.01%
414	WI	291	163	56.01%
813	FL	539	303	56.22%
702/725	NV	478	269	56.28%
650	CA	239	135	56.49%
207	ME	784	443	56.51%
719	CO	601	340	56.57%
951	CA	500	283	56.60%
223/717	PA	846	480	56.74%
563	IA	276	157	56.88%
925	CA	337	192	56.97%
202	DC	524	299	57.06%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
754/954	FL	476	273	57.35%
773/872	IL	359	206	57.38%
840/909	CA	702	404	57.55%
657/714	CA	1,424	820	57.58%
442/760	CA	1,045	602	57.61%
208/986	ID	723	417	57.68%
616	MI	312	180	57.69%
562	CA	409	236	57.70%
970	CO	492	285	57.93%
806	TX	340	197	57.94%
351/978	MA	409	237	57.95%
405	OK	519	301	58.00%
484/610	PA	816	474	58.09%
704/980	NC	794	462	58.19%
305/786	FL	613	357	58.24%
571/703	VA	711	415	58.37%
325	TX	362	212	58.56%
603	NH	355	208	58.59%
423	TN	371	218	58.76%
321/407/689	FL	707	416	58.84%
850	FL	666	392	58.86%
205/659	AL	1,053	620	58.88%
956	TX	682	403	59.09%
316	KS	204	121	59.31%
574	IN	288	172	59.72%
540	VA	668	400	59.88%
915	TX	233	140	60.09%
908	NJ	454	273	60.13%
279/916	CA	605	365	60.33%
304/681	WV	1,024	620	60.55%
803/839	SC	758	463	61.08%
337	LA	260	159	61.15%
580	OK	323	198	61.30%
216	OH	243	149	61.32%
931	TN	319	196	61.44%
262	WI	423	260	61.47%
816	MO	492	303	61.59%
503/971	OR	610	376	61.64%
505	NM	451	278	61.64%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
308	NE	275	170	61.82%
949	CA	586	363	61.95%
636	MO	255	158	61.96%
843/854	SC	642	398	61.99%
341/510	CA	440	273	62.05%
501	AR	787	489	62.13%
507	MN	622	387	62.22%
810	MI	210	131	62.38%
458/541	OR	552	345	62.50%
530	CA	432	270	62.50%
701	ND	353	222	62.89%
417	MO	535	339	63.36%
408/669	CA	335	213	63.58%
609/640	NJ	611	390	63.83%
401	RI	316	203	64.24%
256/938	AL	768	494	64.32%
775	NV	282	182	64.54%
512/737	TX	910	588	64.62%
920	WI	543	351	64.64%
619/858	CA	787	509	64.68%
727	FL	320	207	64.69%
269	MI	258	167	64.73%
860/959	CT	565	366	64.78%
539/918	OK	625	406	64.96%
682/817	TX	740	481	65.00%
812/930	IN	824	536	65.05%
504	LA	266	174	65.41%
865	TN	278	182	65.47%
928	AZ	693	455	65.66%
814	PA	578	380	65.74%
804	VA	503	331	65.81%
334	AL	685	451	65.84%
225	LA	261	172	65.90%
252	NC	532	352	66.17%
910	NC	448	297	66.29%
321	FL	238	158	66.39%
765	IN	528	351	66.48%
520	AZ	487	324	66.53%
432	TX	303	202	66.67%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
724/878	PA	545	365	66.97%
859	KY	360	242	67.22%
434	VA	473	318	67.23%
419/567	OH	619	417	67.37%
561	FL	603	407	67.50%
326/937	OH	579	391	67.53%
435	UT	287	194	67.60%
276	VA	328	223	67.99%
870	AR	723	492	68.05%
919/984	NC	648	441	68.06%
406	MT	449	306	68.15%
430/903	TX	763	520	68.15%
307	WY	315	215	68.25%
402/531	NE	574	392	68.29%
320	MN	287	197	68.64%
218	MN	480	330	68.75%
220/740	OH	540	372	68.89%
904	FL	470	324	68.94%
979	TX	368	254	69.02%
336/743	NC	588	406	69.05%
302	DE	475	329	69.26%
573	MO	497	345	69.42%
534/715	WI	459	320	69.72%
828	NC	370	258	69.73%
831	CA	180	126	70.00%
413	MA	420	295	70.24%
479	AR	539	379	70.32%
912	GA	750	528	70.40%
254	TX	505	358	70.89%
707	CA	515	366	71.07%
260	IN	360	256	71.11%
228	MS	295	210	71.19%
940	TX	317	226	71.29%
601/769	MS	631	451	71.47%
772	FL	218	156	71.56%
608	WI	479	343	71.61%
989	MI	324	233	71.91%
802	VT	585	421	71.97%
352	FL	457	332	72.65%

NPA Complex	State	Thousands-Blocks Forecasted	Thousands-Blocks Assigned	Percentage Assigned
906	MI	160	117	73.13%
662	MS	365	269	73.70%
620	KS	389	287	73.78%
575	NM	329	243	73.86%
231	MI	287	212	73.87%
386	FL	305	227	74.43%
239	FL	341	254	74.49%
863	FL	257	192	74.71%
830	TX	318	239	75.16%
936	TX	405	306	75.56%
251	AL	479	371	77.45%
941	FL	222	172	77.48%
229	GA	997	777	77.93%
706/762	GA	912	725	79.50%
409	TX	373	297	79.62%
785	KS	391	312	79.80%
660	MO	300	240	80.00%
478	GA	407	333	81.82%
270/364	KY	507	421	83.04%
606	KY	450	381	84.67%

For the last five years, the highest percentage of forecasted to actual assigned thousands-blocks was 55.2% in 2020 and the lowest of 32.7% was in 2017.

Table 5-3 below illustrates the ratio between forecasts and actual assigned thousands-blocks from 2016 through 2020, ranked from highest percentage to lowest.

**Table 5-3
Summary of Forecasts and Actual Assigned Thousands-Blocks from 2016 through 2020**

Rank from Highest to Lowest	Year	Total Forecasted Thousands-Blocks	Total Thousands-Blocks Assigned	Percentage of Assigned/Forecasted Thousands-Blocks
1	2020	134,203	74,078	55.2%
2	2019	114,472	51,929	45.4%
3	2016	134,021	55,720	41.6%
4	2018	116,958	46,588	39.8%
5	2017	121,477	39,728	32.7%

Section 6 - 2020 Pooling Administration (PA) and Routing Number Administration (RNA) Systems Performance

6.1. Pooling Administration System (PAS) Performance

6.1.1 Summary of PAS Performance

The Pooling Administration System (PAS) is the core of the thousands-block pooling operation and is vitally important to our customers. Because PAS stores all of the information relating to thousands-block administration and provides many essential reporting features that contain real-time data, reliability is critical.

Section 3.3 of contract Attachment 1, Thousands-Block Pooling Administrator (Including Routing Number Administrator) *Technical Requirements Document (TRD)*, states that the PAS shall, at a minimum, adhere to the following availability and reliability requirements:

- Available 24 hours, seven (7) days a week
- Availability shall meet a minimum requirement of 99.9% of scheduled up-time
- Unscheduled maintenance downtime per calendar year interval shall be less than nine (9) hours
- The mean time to repair (MTTR) for all unscheduled downtime per any 12-month interval shall be less than one (1) hour during core business hours and four (4) hours for non-core business hours
- Scheduled maintenance downtime per 12-month interval shall be less than 24 hours.

In 2020, PAS was available for use **100%** of scheduled uptime during 2020, which meets the PAS performance metric of a *minimum* of 99.9% scheduled uptime. PAS had no unscheduled downtime this year but was unavailable during the year for a combined three hours 33 minutes for two FCC-approved, *scheduled* maintenance on April 2 and July 10.

Table 6-1 summarizes PAS system performance in 2020.

Table 6-1
Summary of Actual 2020 PAS Performance

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
January	744	744	0	N/A
February	696	696	0	N/A
March	744	744	0	N/A
April	720	718 hours 13 minutes	1 hour 47 minutes	S
May	744	744	0	N/A
June	720	720	0	N/A
July	744	742 hours 14 minutes	1 hour 46 minutes	S
August	744	744	0	N/A
September	720	720	0	N/A
October	744	744	0	N/A
November	720	720	0	N/A
December	744	744	0	N/A

6.1.2 PAS Performance Metrics

In 2020, as outlined in Table 6-2, PAS met the required performance metrics set forth in Attachment 1 of the contract:

Table 6-2
PAS PERFORMANCE METRICS

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
PAS Availability (See PWS 3.3)	Pooling Administration System is available	99.9%	MET THE REQUIREMENT WITH A SCHEDULED AVAILABILITY LEVEL OF 100%

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
Maintenance (See PWS 3.3)	Unscheduled maintenance of the PAS is less than 9 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO INSTANCES OF UNSCHEDULED PAS AVAILABILITY
Maintenance (See PWS 3.3)	Scheduled maintenance of the PAS is less than 24 hours in any 12-month period	100%	MET THE REQUIREMENT WITH THREE HOURS 33 MINUTES OF DOWNTIME AS A RESULT OF SCHEDULED MAINTENANCE

6.1.3 PAS Maintenance and Change Orders

6.1.3.1 PAS Maintenance

PAS had a total of five PAS maintenance updates and builds in 2020: on February 27, April 2, May 28, July 10, and September 10. While PAS was unavailable for three hours 33 minutes for the scheduled database maintenance on April 2 and July 10, the other three maintenance events did not cause any unavailability. All PAS maintenance is performed after business hours to minimize the impact on customers.

6.1.3.2 PAS Change Orders

Changes and improvements to PAS are generally driven by changes to FCC rules, industry guidelines, or specific service provider or regulatory requests. There were no PAS change orders submitted, approved or implemented in 2020.

6.1.4 PAS Trouble Tickets

We report trouble ticket details each month to the NAOWG and in the “Monthly Pooling Metrics Report.”

There are four reasons for opening a trouble ticket, as specified in Section 2.22.4.1 of the TRD, relating to issues with the system performance, website, contractor ISP and other.

The PA opened and closed two PAS trouble tickets in 2020 due to a system performance issue. We responded to the issues quickly and found a workaround, however these

issues never impacted the customer’s ability to complete its task. At no time was any user’s information compromised.

Table 6-3 shows the details on the total number of PAS trouble tickets opened and closed in 2020.

**Table 6-3
2020 PAS Trouble Tickets**

TROUBLE TICKET NUMBER	DATE OPENED	DATE CLOSED	ISSUE TYPE
1560	12/26/19	2/27/20	System Performance
1561	3/3/20	4/2/20	System Performance

Table 6-4 shows the total number of trouble tickets opened by year since 2016.

**Table 6-4
Number of PAS Trouble Tickets from 2016 through 2020**

YEAR	NUMBER OF TROUBLE TICKETS
2016	8
2017	5
2018	6
2019	1
2020	2

6.2. Routing Number Administration System (RNAS) Performance

6.2.1 Summary of RNAS Performance

As with PAS, the Routing Number Administration System (RNAS) is essential to the routing number (p-ANI) administration operation because RNAS stores all of the information relating to p-ANI administration to facilitate routing of e9-1-1 calls. Because it provides essential reporting features that contain real-time data, reliability is critical. RNAS is subject to the same availability requirements as PAS.

Section 4.3 of contract Attachment 1, Thousands-Block Pooling Administrator (Including Routing Number Administrator) *Technical Requirements Document (TRD)*, states that the RNAS shall, at a minimum, adhere to the following availability and reliability requirements:

- Available 24 hours, seven (7) days a week
- Availability shall meet a minimum requirement of 99.9% of scheduled up-time
- Unscheduled maintenance downtime per calendar year interval shall be less than nine (9) hours
- The mean time to repair (MTTR) for all unscheduled downtime per any 12-month interval shall be less than one (1) hour during core business hours and four (4) hours for non-core business hours
- Scheduled maintenance downtime per 12-month interval shall be less than 24 hours.

In 2020, RNAS was available for use **100%** of scheduled time for 2020 and continued meeting the RNAS performance metric of a minimum of 99.9% scheduled uptime. RNAS had no *unscheduled* down time but was unavailable for a combined two hours 14 minutes for FCC-approved, *scheduled* maintenance on April 2 and July 10.

**Table 6-5
Summary of Actual 2020 RNAS Performance**

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
January	744	744	0	N/A
February	672	672	0	N/A
March	744	744	0	N/A
April	720	719 hours 6 minutes	54 minutes	S
May	744	744	0	N/A
June	720	720	0	N/A
July	744	742 hours 40 minutes	1 hour 20 minutes	S
August	744	744	0	N/A
September	720	720	0	N/A
October	744	744	0	N/A
November	720	720	0	N/A

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
December	744	744	0	N/A

6.2.2 RNAS Performance Metrics

In 2020, as outlined in Table 6-6, RNAS met the performance metrics as set forth in Section 4.3 of Attachment A of the contract for the RNA system:

**Table 6-6
2020 RNAS PERFORMANCE METRICS**

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
RNAS Availability (See PWS 4.3)	Routing Number Administration System is available	99.9%	MET THE REQUIREMENT WITH A <i>SCHEDULED</i> AVAILABILITY LEVEL OF 100%
Maintenance (See PWS 4.3)	Unscheduled maintenance of the RNAS is less than 9 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO <i>UNCHEDULED</i> DOWNTIME RESULTING IN NO RNAS UNAVAILABILITY
Maintenance (See PWS 4.3)	Scheduled maintenance of the RNAS is less than 24 hours in any 12-month period	100%	MET THE REQUIREMENT BY USING TWO HOURS 14 MINUTES OF APPROVED DOWNTIME AS A RESULT OF SCHEDULED MAINTENANCE

6.2.3 RNAS Maintenance

6.2.3.1 RNAS Maintenance

There were three RNAS maintenance events in 2020, on January 23, April 2 and July 10. While RNAS was unavailable for two hours 14 minutes for the scheduled database

maintenance on April 2 and July 10, the other maintenance event did not cause any unavailability. All RNAS maintenance is performed after business hours to minimize the impact on customers.

6.2.3.2 RNAS Change Orders

Changes and improvements to RNAS are generally driven by changes to FCC rules, industry guidelines, or specific service provider or regulatory requests. There were no RNAS Change Orders submitted or implemented in 2020.

6.2.4 RNAS Trouble Tickets

We report trouble ticket details each month to the NAOWG and in the “Monthly Metrics Report.”

There are four reasons for opening a trouble ticket, as specified in Section 2.22.4.1 of the TRD, relating to issues with the system performance, website, contractor ISP and other.

The RNA opened no new trouble tickets for RNAS in 2020. Table 6-7 shows the total number of RNAS trouble tickets opened, by year, since 2016.

**Table 6-7
Number of RNA Trouble Tickets from 2016 through 2020**

YEAR	NUMBER OF TROUBLE TICKETS
2016	0
2017	3
2018	1
2019	0
2020	0

6.3. PA and RNA Systems Disaster Recovery Testing

Disaster recovery testing occurs throughout the year during routine system maintenance for PAS and RNAS to ensure system redundancy in an AWS cloud environment.

In addition, due to the COVID-19 Pandemic, our Concord, CA, office personnel transitioned seamlessly to working remotely from March 2020, through the end of the year, with no interruption of services.

Section 7 - Status of Required Transferable Property

The Pooling Administrator affirms that all equipment defined in the annual inventory report required per Section 3.21 of the contract and submitted to the FCC Property Management Division, is considered transferable property. The reported transferable property inventory is available for transfer upon direction from the FCC and is appropriately labeled with FCC asset tags, updated, reviewed, and certified by the Business Operations Manager (BOM) as required by the FCC Property Management Division.

Section 8- Industry Issue Identification/Feedback

The PA supports the industry through several channels during the year: interaction with the Numbering Administration Oversight Working Group (NAOWG) providing status reports for the North American Numbering Council (NANC) meetings through the NAOWG, participation in NANC subgroup meetings, and participation in industry forums. This section contains information on the industry forums the PA participated in, including the number of issues and contributions that the PA submitted and quarterly *Tips*.

8.1 North American Numbering Council (NANC)

The PA provided status reports to the FCC through the NAOWG for three meetings of the North American Numbering Council (NANC) in 2020; in May, September, and December. The PA reports consisted of a 12-month rolling status of thousands-block pooling administrator and routing number administrator activities.

8.2 Participation in Industry Forums

As the national PA and RNA, our participation at industry forums includes:

- Working on issues and answering questions relating to the thousands-block pooling process and the p-ANI administration process,
- Actively participating in discussions, and
- Developing and submitting new issues based on input we received from the industry, regulators, and internal sources.

The PA participated in the following industry forums in 2020:

- **Industry Numbering Committee (INC)** – the PA participated in one face-to-face meeting and 22 virtual meetings. The PA submitted 5 new issues and 5 new contributions in 2020 that were all pooling related.
- **Common Interest Group on Rating and Routing (CIGRR)** – the PA participated in the one face-to-face CIGRR meeting and seven virtual meetings and submitted one issue in coordination with TRA in 2020. The PA continued to review the 3H (BCRnoNXD under 45 days) validation report monthly prior to the report being sent to the Administrative Operating Company Numbers (AOCNs). The PA also reviewed the 3E (BCRnoNXD over 45 days) report monthly. When requested the PA also researched other data comparison requests sent by iconectiv TRA. The PA continued to address issues and concerns in the committee from participants.

- **Local Number Portability Administration Transition Oversight Subcommittee (LNPA TOSC)/now known as the Number Portability Industry Forum (NPIF)** - the PA participated in 9 LNPA TOSC/NPIF meetings and conference calls as a subject matter resource.
- **Telecom Management and Operations Committee (TMOC)** – the PA participated in two virtual meetings as a subject matter expert.
- **Emergency Services Interconnection Forum (ESIF)** – the PA, as the Routing Number Administrator, attended three ESIF meetings.

8.3 Pooling and Routing Number Administrator Interaction with the Numbering Administration Oversight Working Group (NAOWG)

The Numbering Administration Oversight Working Group (NAOWG) reviews our annual performance. The NAOWG’s interactions with the PA throughout the year included participating in meetings with the PA to review each month’s performance.

The NAOWG and the PA Director met 12 times via web meeting to discuss the PA and RNA’s monthly performance. The 2020 meeting dates were: January 31, February 27, March 26, April 30, May 28, June 25, July 30, August 27, September 17, October 29, November 20, and December 17.

Prior to each meeting, the PA provided the NAOWG with a summary report of its performance for the previous month/s which included updates on trouble tickets, industry meeting activities and regulatory information. In all, the PA provided 12 monthly reports to the NAOWG.

Table 8-1 contains the description of the standing summary report agenda items.

Table 8-1
NAOWG Description of the Standing Monthly Summary Report Agenda Items

AGENDA ITEM	DESCRIPTION
Summary Data	Measurable items that happened in the month that are based on the TRD and guideline requirements
Summary Block Report	The total number of rate centers with less than six months inventory based on service providers' forecasts; total number of rate centers with no blocks available where SPs have forecasted a need for blocks within 6 months; and the total number of rate centers with blocks available from codes that have been assigned but have not yet been opened in the PSTN or NPAC (and are therefore classified as pending)
RCs< 6 Mo Inventory	The list of all rate centers that have fewer blocks available than are forecasted to be needed in the next 6 months
RCs Zero Inventory with Forecast	The list of all rate centers that have no blocks available to be assigned, but service providers have forecasted a need for blocks
RCs with Pending Blocks	Blocks that are currently available in the pool where the code holder has not confirmed to the PA it has activated the code in the PSTN, loaded it in the NPAC, and completed all other code holder responsibilities
Trouble Tickets	All new, closed, and pending trouble tickets for the current year and their status
Regulatory Update	Information about state commissions and personnel that might be of importance to the oversight group
INC Update	INC issues that have gone into either initial or final closure and anything of importance to note from INC
Customer Focus Items	Items that require research, assistance, or education beyond our normal daily interactions with customers

Activities reported as *Customer Focus Items* are noteworthy specific ways in which the PA and RNA responded to more significant issues and requests from our customers during the year. This list includes only items that required extra time and effort on the part of the PA and RNA and does not include all of the day-to-day questions and requests that the pooling staff members field as part of their daily workload. The PA and RNA reported a total of 187 customer focus items in 2020 of which 159 were pooling-related and 28 were p-ANI-related.

The NAOWG also provides recommendations to the FCC on all PAS and RNAS change order proposals. In 2020, the PA did not submit any change orders.

8.4 Pooling and Routing Number Administrator Formal Complaints

Pursuant to Section 2.9.4 of the TRD, if a performance problem is identified by a telecommunications industry participant, the PA must notify the FCC of the problem within one business day. The PA must then investigate the problem and report back within a period of not more than 10 business days from the date of the complaint, to the FCC and to the telecommunications industry participant on the results of such investigation and any corrective action taken or recommended to be taken.

In 2020, the PA received *no formal complaints*.

8.5 Pooling and Routing Number Administrator Quarterly Tips

8.5.1 Pooling Quarterly Tips

The PA has been offering pooling tips since 2004 and feedback from recipients continues to be positive. Topics for the tips are generated from suggestions received from regulators and service providers, INC action items, and internal observations regarding processes that could benefit from additional clarification. The *Quarterly Tip* is sent via email to the PAS distribution list during each quarter. The *Quarterly Tip* provides helpful information regarding the PAS and thousands-block pooling process, as well as serving as a useful reference for all PAS users. Archive files for *Pooling Tips* from previous years can be found on our website.

Table 8-2 lists all of the 2020 pooling *Quarterly Tip* topics:

**Table 8-2
2020 Pooling Quarterly Tips**

Month	Topic
January	Current Code Holder Responsibilities for Voluntary Code Transfer Process for Establishing an LRN for <i>All Blocks</i> that the Current Code Holder will be Keeping
April	Helpful Tip for Locating a PAS Request
July	Designated Point of Contact - Search for New Block Holder/New Code Holder (SP Users Only)
October	Adding a new OCN to a PAS User Profile

8.5.2 P-ANI Quarterly Tips

Building on the success of the pooling *Tips*, the RNA began sending p-ANI *Tips* in April of 2012. The p-ANI *Tip* is sent via email to the RNAS distribution list at the beginning of each quarter. The p-ANI *Quarterly Tip* provides helpful information regarding RNAS and the p-ANI request process and serves as a useful reference for all RNAS users. Archive files for all p-ANI *Tips* can be found on our website. Table 8-3 lists all of the p-ANI *Tip* topics that were covered by quarter:

**Table 8-3
2020 P-ANI Quarterly Tips**

Month	Topic
January	Returning p-ANIs
April	Returning or Modifying Part of an Existing p-ANI Range
July	Mass New, Modify, or Return p-ANI Requests
October	RNAS Passwords

8.6 Pooling and Routing Number Administrator Customer Support / Help Desk

The Pooling Customer Support/Help Desk and Routing Number Administrator respond to both internal and external questions and requests for technical support and attempts to promptly confirm the cause of a problem. Some examples are:

- Creating, deleting, and maintaining user accounts and passwords,
- Answering a variety of inquiries from customers, including questions regarding use of forms and the PAS and RNAS, and assists users with locating documentation, and
- Working with carriers to troubleshoot problems and assist in resolving technical problems.

8.6.1 Pooling Administrator (PA) Help Desk Calls

In 2020, the PA Help Desk handled approximately 371 calls from customers. Table 8-4 shows the numbers of calls to the pooling Help Desk by year since 2016.

**Table 8-4
Number of Pooling Customer Support/Help Desk Calls from 2016 through 2020**

Year	Number of Help Desk Calls
2016	875
2017	698
2018	674

Year	Number of Help Desk Calls
2019	511
2020	371

8.6.2 Routing Number Administrator (RNA) Help Desk Calls

In 2020, the Routing Number Administrator (RNA) Help Desk handled 61 phone calls. In addition, the RNA processed 55 new user registration requests, of which 43 were approved and 12 were denied, as well as 18 profile updates, of which 17 were approved and 1 was denied.

Table 8-5 shows the numbers of calls to the Routing Number Administrator (RNA) Customer Support/Help Desk for the past five years.

**Table 8-5
Number of RNA Customer Support/Help Desk Calls from 2016 through 2020**

Year	Number of Help Desk Calls
2016	72
2017	69
2018	65
2019	67
2020	61

Section 9 - Volume of Reports Produced in 2020 Aggregated by Regulatory Agency, NANC, NANPA, Service Providers, and Metrics

Section 9.1 Total Reports

This section identifies the volume of reports in 2020 related to pooling and p-ANI, aggregated by regulatory agency, NANC, NANPA, and service providers. The total in each section includes standard contract reports as well as non-standard (ad hoc) reports. These totals *do not* include reports that were obtained directly from the Pooling Administrator's website, the Pooling Administration System (PAS), or the Routing Number Administration System (RNAS). We produced 637 reports in 2020, which is an average of about 51.5 reports per month.

Table 9-1 shows the total number of reports produced during 2020 aggregated by regulatory agency, NANC, NANPA, service providers and monthly metrics. The total number of reports includes:

- **FCC:** Contract Data Requirements List (CDRL), *ad hoc*, and other reports required by the contract.
- **STATES:** pooling status, reclamation, educational sessions, and miscellaneous *ad hoc* reports.
- **NANC:** the pooling status reports for the three NANC meetings.
- **NANPA:** pooling status reports for NANPA industry meetings, *ad hoc* reports, two NRUF-cycle reports and new this year, reports related to the transition to 10-digit dialing for the Suicide Prevention Hotline.
- **SERVICE PROVIDERS:** rate center change reports, implementation meeting reports, monthly meeting reports to the NAOWG, and miscellaneous *ad hoc* reports.
- **MONTHLY METRICS:** required by Section 2.22.4 of the TRD. This report includes information about trouble tickets, change orders, communications, and forecasting data on a per-state basis and summaries of application processing on a monthly basis by the PA and RNA. This report is posted to the website only.

**Table 9-1
Total 2020 Reports**

TYPE	TOTAL NUMBER OF REPORTS
FCC	73
STATES	394
NANC	3
NANPA	123
SERVICE PROVIDER	32
MONTHLY METRICS	12
TOTAL	637

Section 9.2 Reports Compliance

This section describes the reports that are required in the TRD. Some reports are CDRL reports, and others are required by the TRD. Table 9-2 shows the report name, contract reference, required interval, dates the reports were submitted, the total number of each required report submitted for the year, and whether the requirement was met. All report requirements were met in 2020.

**Table 9-2
2020 Required Reports Compliance**

REPORT NAME	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
Staffing Report	CDRL 5.6.4.4 per Section 2.3	1 st working day of the month	1/2, 2/3, 3/2, 4/1, 5/1, 6/1, 7/1, 8/3, 9/1, 10/1, 11/2, 12/1	12	Y
Thousands – Block Pooling Report	CDRL 5.6.4.1 per Section 2.21.1.1	Monthly	1/8, 2/6, 3/5, 4/8, 5/8, 6/4, 7/8, 8/10, 9/8, 10/7, 11/6, 12/8	12	Y
p-ANI Monthly Report	Section 5.6.4.2 and 2.21.1.2	Monthly	1/8, 2/6, 3/5, 4/8, 5/8, 6/4, 7/8,	12	Y

REPORT NAME	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
			8/10, 9/8, 10/7, 11/6, 12/8		
Systems (PAS and RNAS) Performance Report	CDRL 5.6.4.3 per Section 2.21.1.1 and 2.21.1.2	Monthly	1/8, 2/6, 3/5, 4/8, 5/8, 6/4, 7/8, 8/10, 9/8, 10/7, 11/6, 12/8	12	Y
Ad Hoc Reports	CDRL 5.6.5 per Section 2.21.4	Monthly	1/8, 2/6, 3/5, 4/8, 5/8, 6/4, 7/8, 8/10, 9/8, 10/7, 11/6, 12/8	12	Y
Pooling Matrices Report	CDRL 5.6.3.1 Per Section 2.21.3	Quarterly	1/8, 4/8, 7/8, 10/7	4	Y
Forecasted Demand (Pooling)	CDRL 5.6.2.1 Per Section 2.17.1.1	Semi-Annual	2/7, 8/6	2	Y
Rate Area Inventory Pool Status (Pooling and RNA)	CDRL 5.6.2.2 and Section 2.16.1.5.	Semi-Annual	2/7, 8/6	2	Y
Annual	CDRL 5.6.1 Per Section 2.21.2	Annual	3/27	1	Y
By Request (Ad Hoc)	CDRL 5.6.5 Per Section 2.21.4	Within three business days	January (5 reports) February (2 reports) March (5 reports) April (3 reports) May (6 reports) June (4 reports) July (4 reports) August (9 reports)	142	Y

REPORT NAME	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
			September (87 reports) October (5 reports) November (7 reports) December (5 reports)		
Monthly Pooling Metrics	Section 2.22.4	Monthly	1/8, 2/6, 3/5, 4/8, 5/8, 6/4, 7/8, 8/10, 9/8, 10/7, 11/6, 12/8	12	Y
Inventory	Per Section 3.21	Quarterly	4/23, 7/16 (2), 10/30	4	Y
TOTAL CDRL REPORTS				69	
TOTAL REPORTS				85	
TOTAL (WITH AD HOC)				227	

Section 10 - Trends in Pooling Since 2016¹

When the states began ordering number pooling trials in 1998, nearly every NPA was experiencing acceleration of expected exhaust dates. Many required extraordinary jeopardy procedures² to maintain enough resources until relief was implemented. There remain only 4 NPAs in a jeopardy status, IL 217 and 618, DC 202 and CA 209 compared to 73 in 1999, and 17 in 2010.

This section contains pooling statistics that illustrate the impacts and activity trends in the pooling environment between 2016 and 2020, with the exception of Section 10.1, which includes NXXs saved since pooling began.

10.1 NXXs Saved by Pooling

The PA calculates that **97,133 NXXs** have been saved by pooling, which is the equivalent of 90 NPAs.

Table 10-1 illustrates by NPA/NPA complex³ the 97,133 NXXs that have been saved in all NPA areas, in 50 states and the District of Columbia and Puerto Rico.

¹ Except Section 10.1 and 10.2.3 which is since pooling began.

² NANPA declares “jeopardy” in area codes for which the supply of NXXs could exhaust before relief can be provided.

³ An NPA complex is the combination of all NPAs tied to any specific geographic rate center, including overlay NPAs.

**Table 10-1
NXXs Saved by Pooling**

State	NPA	Quantity of NXXs saved by pooling
New Jersey	201/551	400
District of Columbia	202	25
Connecticut	203/475	337
Alabama	205/659	414
Washington	206	62
Maine	207	885
Idaho	208/986	426
California	209	468
Texas	210/726	29
New York	212/332 /646/917	40
California	213/323	263
Texas	214/469 /972	524
Pennsylvania	215/267 /445	551
Ohio	216	59
Illinois	217	753
Minnesota	218	434
Indiana	219	357
Ohio	220/740	1,098
Pennsylvania	223/717	792
Illinois	224/847	657
Louisiana	225	230
Mississippi	228	118
Georgia	229	250
Michigan	231	557
Ohio	234/330	735
Florida	239	144
Maryland	240/301	674
Michigan	248/947	325
Alabama	251	190
North Carolina	252	516
Washington	253	114

State	NPA	Quantity of NXXs saved by pooling
Texas	254	397
Alabama	256/938	520
Indiana	260	387
Wisconsin	262	406
Michigan	269	535
Kentucky	270/364	591
Pennsylvania	272/570	1,074
Virginia	276	379
California	279/916	194
Texas	281/346 /713/832	580
Delaware	302	359
Colorado	303/720	95
West Virginia	304/681	1,134
Florida	305/786	135
Wyoming	307	234
Nebraska	308	206
Illinois	309	661
California	310/424	338
Illinois	312/872	29
Michigan	313	106
Missouri	314	93
New York	315/680	816
Kansas	316	135
Indiana	317/463	341
Louisiana	318	417
Iowa	319	355
Minnesota	320	400
Florida	321	75
Florida	321/407 /689	248
Texas	325	205
Ohio	326/937	722
Illinois	331/630	397
Alabama	334	411

State	NPA	Quantity of NXXs saved by pooling
North Carolina	336/743	375
Louisiana	337	337
Massachusetts	339/781	578
California	341/510	237
New York	347/718 /917/929	271
New York	347/718 /929	44
Massachusetts	351/978	792
Florida	352	423
Washington	360/564	398
Texas	361	381
Ohio	380/614	198
Utah	385/801	200
Florida	386	300
Rhode Island	401	290
Nebraska	402/531	694
Georgia	404/470 /678	32
Oklahoma	405	425
Montana	406	390
California	408/669	185
Texas	409	226
Maryland	410/443 /667	1,043
Pennsylvania	412/878	349
Massachusetts	413	516
Wisconsin	414	57
California	415/628	235
Missouri	417	688
Ohio	419/567	1,047
Tennessee	423	429
Washington	425	125
Texas	430/903	718
Texas	432	205
Virginia	434	415
Utah	435	193
Ohio	440	417

State	NPA	Quantity of NXXs saved by pooling
California	442/760	828
Oregon	458/541	792
Georgia	470/678 /770	478
Georgia	478	182
Arkansas	479	219
Arizona	480	20
Pennsylvania	484/610	1,066
Arkansas	501	294
Kentucky	502	297
Oregon	503/971	365
Louisiana	504	56
New Mexico	505	140
Minnesota	507	511
Massachusetts	508/774	1,136
Washington	509	479
Texas	512/737	395
Ohio	513	211
Iowa	515	354
New York	516	198
Michigan	517	428
New York	518/838	1,108
Arizona	520	124
California	530	744
Wisconsin	534/715	657
Oklahoma	539/918	617
Virginia	540	660
California	559	426
Florida	561	170
California	562	140
Iowa	563	307
Virginia	571/703	268
Missouri	573	1,124
Indiana	574	266
New Mexico	575	288
Oklahoma	580	573
New York	585	577
Michigan	586	166

State	NPA	Quantity of NXXs saved by pooling
Mississippi	601/769	576
Arizona	602	14
New Hampshire	603	704
South Dakota	605	217
Kentucky	606	396
New York	607	512
Wisconsin	608	472
New Jersey	609/640	615
Minnesota	612	26
Tennessee	615/629	338
Michigan	616	379
Massachusetts	617/857	343
Illinois	618	941
California	619/858	261
Kansas	620	678
Arizona	623	13
California	626	161
New York	631/934	743
Missouri	636	409
Iowa	641	586
California	650	240
Minnesota	651	102
California	657/714	253
Missouri	660	497
California	661	325
Mississippi	662	842
Texas	682/817	261
North Dakota	701	180
Nevada	702/725	73
North Carolina	704/980	478
Georgia	706/762	643
California	707	849
Illinois	708	477
Iowa	712	387
New York	716	605
Colorado	719	272
Pennsylvania	724/878	1,229

State	NPA	Quantity of NXXs saved by pooling
Florida	727	93
Tennessee	731	374
New Jersey	732/848	635
Michigan	734	451
California	747/818	275
Florida	754/954	117
Virginia	757	343
Minnesota	763	56
Indiana	765	760
Florida	772	163
Illinois	773/872	187
Nevada	775	254
Illinois	779/815	1,215
Kansas	785	508
Puerto Rico	787/939	314
Vermont	802	649
South Carolina	803/839	438
Virginia	804	498
California	805/820	498
Texas	806	274
Hawaii	808	63
Michigan	810	476
Indiana	812/930	825
Florida	813	172
Pennsylvania	814	878
Missouri	816	431
North Carolina	828	437
Texas	830	452
California	831	259
South Carolina	843/854	439
New York	845	945
Florida	850	324
New Jersey	856	496
Kentucky	859	272
Connecticut	860/959	554
New Jersey	862/973	684
Florida	863	252
South Carolina	864	441

State	NPA	Quantity of NXXs saved by pooling
Tennessee	865	275
Arkansas	870	631
Tennessee	901	98
Florida	904	236
Michigan	906	325
Alaska	907	32
New Jersey	908	440
California	909	355
North Carolina	910	500
Georgia	912	265
Kansas	913	147
New York	914	391
Texas	915	60
North Carolina	919/984	353
Wisconsin	920	675

State	NPA	Quantity of NXXs saved by pooling
California	925	287
Arizona	928	287
Tennessee	931	429
Texas	936	288
Texas	940	237
Florida	941	194
California	949	128
California	951	341
Minnesota	952	29
Texas	956	223
Colorado	970	592
Texas	979	304
Louisiana	985	352
Michigan	989	781

**Table 10-2
Pooling Activity from 2016 through 2020 At-A-Glance**

	2016 Statistics	2017 Statistics	2018 Statistics	2019 Statistics	2020 Statistics
NXXs Opened for LRNs	382	436	481	682	691
NXXs Opened for Dedicated Customers	169	91	54	47	44
NXXs Opened for Pool Replenishment	2,827	2,165	2,262	2,651	4,152
Thousands-Blocks Assigned by PA During Year	55,723	39,728	36,602	51,969	74,078
Total Assigned Thousands-Blocks in PAS at Year End	540,560	568,959	605,561	647,827	721,905

Applications Processed	123,629	134,389	115,319	116,797	210,009
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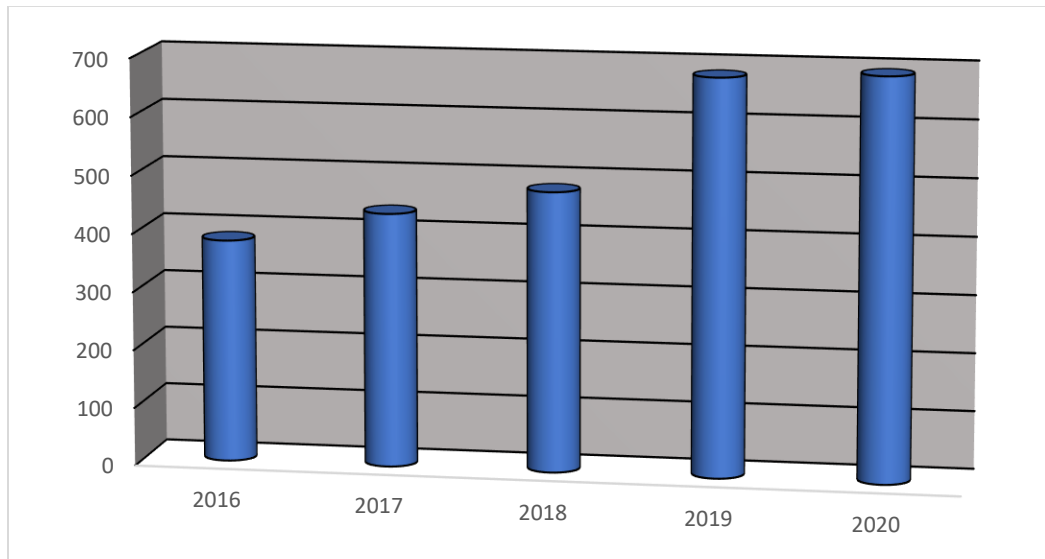


Figure 4: CO Codes Opened for LRNs from 2016 through 2020

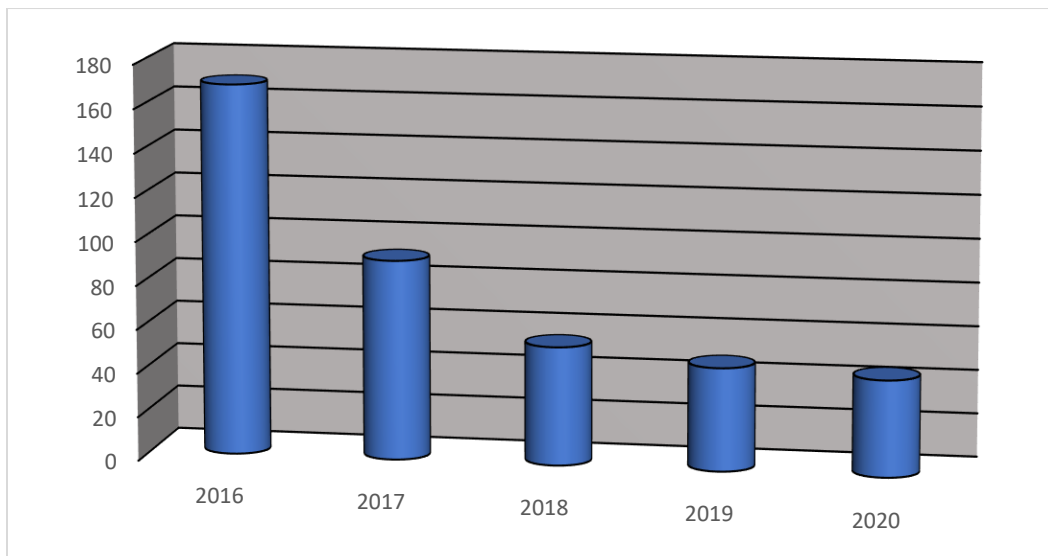


Figure 5: CO Codes Opened for Dedicated Customers from 2016 through 2020

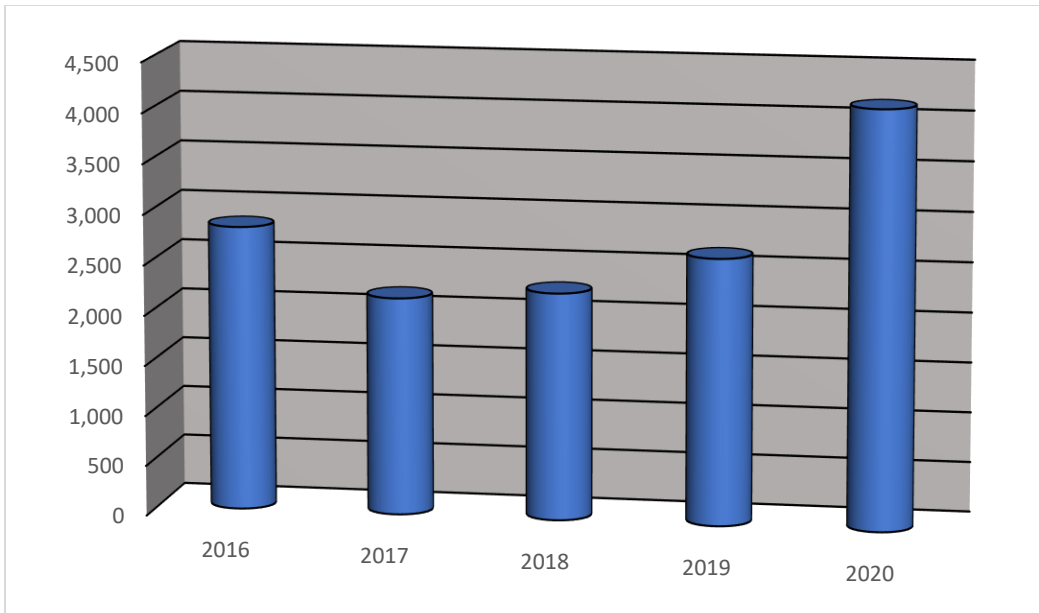


Figure 6: CO Codes Opened for Pool Replenishment from 2016 through 2020

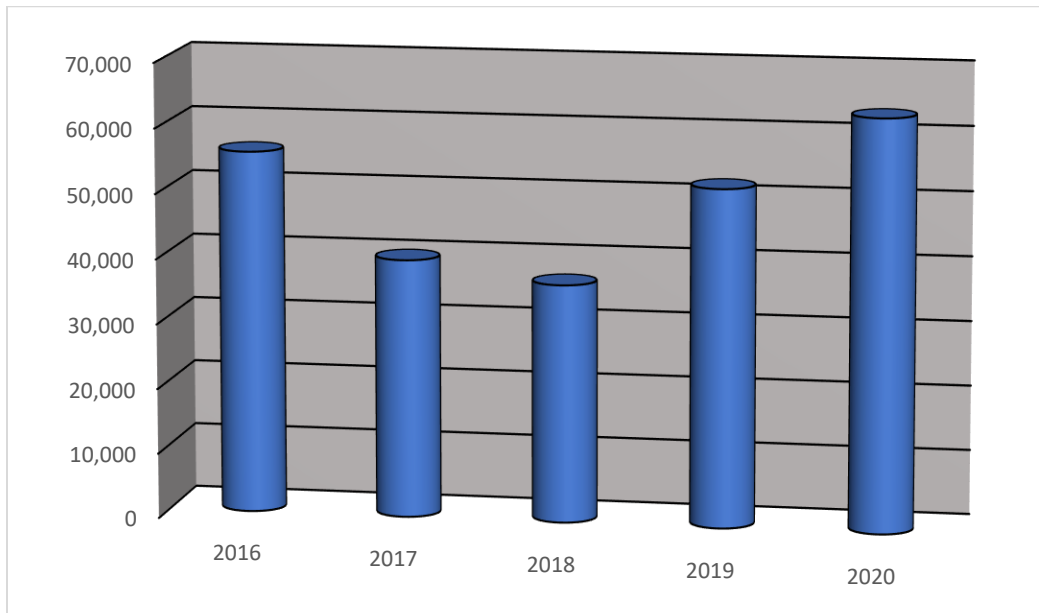


Figure 7: Blocks Assigned During Years 2016 through 2020

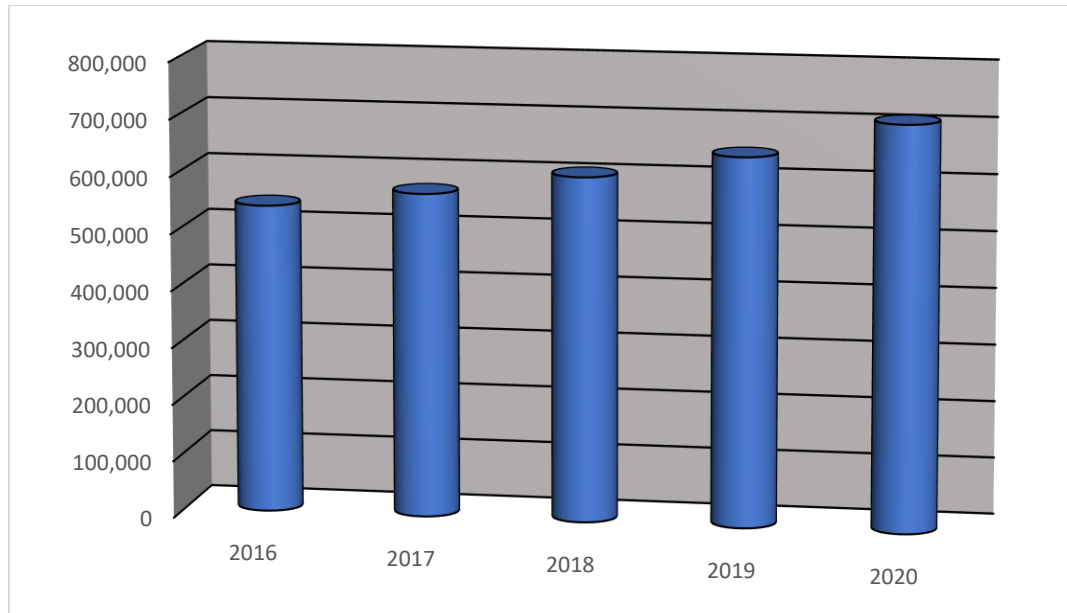


Figure 8: Assigned Blocks at End of Year 2016 through 2020

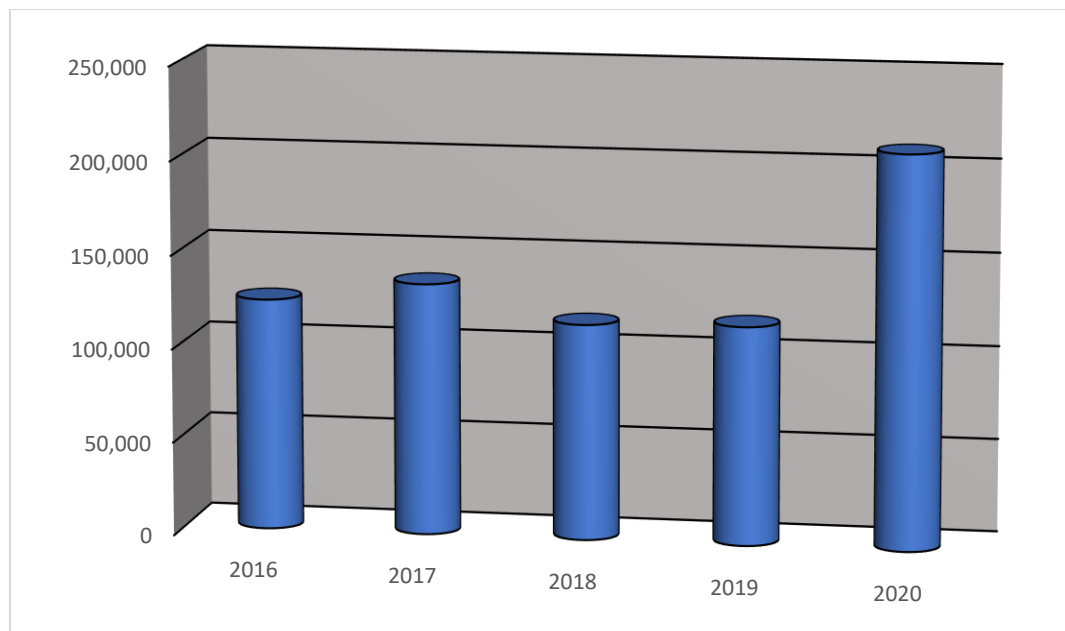


Figure 9: Applications (Part 3As) Processed from Years 2016 through 2020

10.2 Total Applications Processed (Part 3As) from 2016 through 2020

The total number of applications (Part 3As) processed is the best measure of the actual processing work performed by the pooling administrators. Although a large majority of applications for numbering resources are processed and approved immediately, some are suspended for future action, and some are withdrawn or denied entirely. Each of these activities generates a Part 3A.

Table 10-3 contains the total numbers of Part 3As processed by month since 2016.

**Table 10-3
Total Applications Processed (Part 3As) Since 2016**

	2016	2017	2018	2019	2020
Jan	6,922	11,063	13,652	7,412	13,655
Feb	12,323	15,301	5,317	7,422	10,687
Mar	15,097	17,491	9,334	9,102	11,776
Apr	9,371	12,298	11,348	11,355	11,047
May	9,614	12,187	11,214	11,684	9,851
Jun	10,767	10,004	11,611	8,962	28,554
Jul	8,067	8,547	6,899	8,691	14,720
Aug	11,361	7,667	7,979	13,186	33,302
Sep	9,197	7,262	8,146	10,930	17,123
Oct	10,156	7,110	15,080	10,660	17,959
Nov	8,851	10,782	7,790	9,611	20,990
Dec	11,903	14,677	6,949	7,782	20,345
TOTAL	123,629	134,389	115,319	116,797	210,009

10.3 Reclamation 2016 through 2020

The PA has been authorized to reclaim 31 blocks since 2016. Table 10-4 shows the total number of thousands-blocks reclaimed by state since 2016, ranked from highest to lowest.

**Table 10-4
Total Number of Thousands-Blocks Reclaimed by State from 2016 through 2020**

Table 10-4 shows, by year since 2016, the total number of thousands-blocks that were actually reclaimed by state.

State	2016	2017	2018	2019	2020	Total
GEORGIA		6	2	2	2	12
WASHINGTON		2	1	3		6
IOWA					3	3
MICHIGAN	2					2
VIRGINIA	1			1		2
ALABAMA		1				1
COLORADO		1				1
DISTRICT OF COLUMBIA				1		1
MISSISSIPPI		1				1

State	2016	2017	2018	2019	2020	Total
OREGON		1				1
VERMONT	1					1
TOTAL	4	12	3	7	5	31

Table 10-5 shows, by year since 2016, the cumulative number of thousands-blocks on the reclamation lists each month, the total number of those thousands-blocks that were new each month, and the number of thousands-blocks for which reclamation has been initiated, and the number of thousands-blocks actually reclaimed. In 2020, we were authorized to initiate reclamation for 23 thousands-blocks but actually reclaimed five.

**Table 10-5
Summary of Reclamation from 2016 through 2020**

Year	Number of Cumulative Thousands-Blocks on the List	Number of New Thousands-Blocks on the List ¹	Number of Thousands-Blocks for which Reclamation was Initiated ²	Number of Thousands-Blocks Reclaimed
2016	2,840	1,081	44	4
2017	3,703	1,117	32	12
2018	2,403	1,061	115	3
2019	2,652	1,306	19	7
2020	4,082	1,654	23	5

10.4 Summary of Pooled Areas since 2016

Table 10-6 below depicts the trends in rate center statuses between 2016 through 2020.

**Table 10-6
Pooling Rate Center Facts Comparison by Year - 2016 through 2020**

¹ We added new overdue Part 4As to the cumulative list in 2009.

² While a state may authorize the PA to initiate thousands-block reclamation, not all thousands-blocks in this category have actually been reclaimed. In some cases, the reclamation process is halted if it is determined that the thousands-blocks are actually in service.

	2016	2017	2018	2019	2020
Total Number of Distinct Rate Centers	18,507	18,490	18,485	18,485	18,484
Total Number of Distinct Rate Centers Available for Pooling	16,331	16,447	16,592	16,672	16,732
Percentage of Distinct Rate Centers that are Available for Pooling	88.24%	88.95%	89.8%	90.2%	90.5%
Total Number of Mandatory Distinct Rate Centers	8,898	8,983	9,006	9,068	9,168
Percentage of Distinct Rate Centers that are Mandatory	48.08%	48.58%	48.7%	49.1%	49.6%
Total Number of Distinct Mandatory Single-Service Provider Rate Centers	1,064	969	941	905	805
Percentage of Distinct Rate Centers that are Mandatory Single-Service Provider	5.75%	5.24%	5.0%	4.9%	4.3%
Total Number of Distinct Optional Rate Centers	6,369	6,495	6,645	6,699	6,759
Percentage of Distinct Rate Centers that are Optional	34.41%	35.12%	35.9%	36.2%	36.5%
Total Number of Distinct Rate Centers Excluded from Pooling	2,176	2,043	1,893	1,813	1,752
Percentage of Distinct Rate Centers that are Excluded from Pooling	11.76%	11.04%	10.2%	9.8%	9.4%
Total Number of Rate Center Designations Changed (see Section 2.4.2 for detail)	174	283	204	293	212

APPENDIX 1

National Routing Number Administration 2020 p-ANI Activity and Projected Exhaust Report

The tables found herein contain the P-ANI Activity and Projected Exhaust Report projected exhaust information detail based on data as of December 31, 2020 as follows and referenced in Sections 2.7.1 and 2.7.2.4:

Table A1-1: Projected Exhaust of 211/511 p-ANIs by NPA

Table A1-2: Projected Exhaust of 211/511 p-ANIs by State

Table A1-3: Projected Exhaust of 211/511 p-ANIs by Year

NOTE: "N/A" for exhaust date and quarter indicates there is no forecasted demand so no exhaust date can be calculated.

Table A1-1
Projected Exhaust of 211/511 p-ANIs by NPA¹

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
201	NJ	9,311	40	2283	1
202	DC	652	24	2822	1
203	CT	7,467	0	N/A	N/A
205	AL	5,937	100	2157	3
206	WA	1,262	150	2141	4
207	ME	7,776	30	2423	2
208	ID	5,484	170	2101	2
209	CA	5,691	160	2105	2
210	TX	7,372	56	2242	3
212	NY	5,135	30	2512	3
213	CA	3,104	100	2185	4
214	TX	7,589	140	2105	3
215	PA	1,967	30	2617	1
216	OH	1,205	280	2083	1
217	IL	5,563	200	2088	1
218	MN	3,444	360	2062	4
219	IN	4,349	160	2114	4
220	OH	50	0	N/A	N/A
223	PA	50	0	N/A	N/A
224	IL	9,538	380	2044	3

¹ Based on data as of 12/31/2020.

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
225	LA	1,987	60	2316	1
228	MS	2,131	130	2153	2
229	GA	3,555	30	2564	1
231	MI	4,251	100	2173	2
234	OH	305	0	N/A	N/A
239	FL	1,562	30	2631	3
240	MD	575	24	2825	2
248	MI	6,089	200	2086	3
251	AL	1,956	30	2617	2
252	NC	5,041	80	2203	4
253	WA	1,345	0	N/A	N/A
254	TX	8,202	80	2163	2
256	AL	3,900	80	2217	2
260	IN	2,141	30	2611	2
262	WI	310	0	N/A	N/A
267	PA	50	0	N/A	N/A
269	MI	1,930	24	2769	4
270	KY	4,857	30	2521	4
272	PA	145	0	N/A	N/A
276	VA	2,227	40	2460	2
279	CA	50	0	N/A	N/A
281	TX	10,345	74	2146	2
301	MD	1,902	130	2155	1
302	DE	2,066	30	2614	4
303	CO	4,135	60	2280	2
304	WV	10,547	80	2134	1
305	FL	2,336	30	2605	4
307	WY	3,639	60	2289	3
308	NE	2,513	60	2307	2
309	IL	4,691	260	2075	4
310	CA	3,178	80	2226	2
312	IL	5,082	80	2202	2
313	MI	703	0	N/A	N/A
314	MO	10,705	100	2109	4
315	NY	7751	400	2047	3
316	KS	5642	100	2160	3
317	IN	4265	444	2051	2
318	LA	4280	30	2540	1
319	IA	1331	0	N/A	N/A

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
320	MN	1620	40	2476	3
321	FL	1982	60	2316	2
323	CA	4,157	40	2412	1
325	TX	8,100	100	2135	1
326	OH	50	0	N/A	N/A
330	OH	7,270	280	2061	2
331	IL	75	0	N/A	N/A
332	NY	50	0	N/A	N/A
334	AL	6,018	40	2366	3
336	NC	3,318	80	2225	3
337	LA	2,623	40	2450	2
339	MA	50	0	N/A	N/A
340	VI	360	0	N/A	N/A
341	CA	50	0	N/A	N/A
346	TX	50	0	N/A	N/A
347	NY	50	0	N/A	N/A
351	MA	60	0	N/A	N/A
352	FL	2,658	30	2594	1
360	WA	2,864	40	2444	2
361	TX	7,358	80	2174	1
364	KY	110	0	N/A	N/A
380	OH	50	0	N/A	N/A
385	UT	50	0	N/A	N/A
386	FL	1,784	80	2244	3
401	RI	1,135	24	2802	1
402	NE	8,059	80	2165	2
404	GA	2,622	30	2595	2
405	OK	14,198	30	2209	2
406	MT	4,728	30	2525	1
407	FL	2,145	81	2236	2
408	CA	2,752	40	2447	1
409	TX	3,577	80	2221	2
410	MD	4,812	30	2522	2
412	PA	1,179	30	2643	2
413	MA	3,792	80	2219	3
414	WI	6,527	170	2095	2
415	CA	1,926	30	2618	2
417	MO	4,975	40	2392	3
419	OH	6,161	40	2362	4

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
423	TN	5,068	40	2389	2
424	CA	50	0	N/A	N/A
425	WA	757	30	2657	2
430	TX	1,202	30	2643	3
432	TX	3,306	48	2364	4
434	VA	3,470	30	2567	1
435	UT	2,314	30	2606	3
440	OH	2,423	230	2092	2
442	CA	90	0	N/A	N/A
443	MD	100	0	N/A	N/A
445	PA	50	0	N/A	N/A
458	OR	50	0	N/A	N/A
463	IN	50	0	N/A	N/A
469	TX	3,469	60	2292	3
470	GA	173	0	N/A	N/A
475	CT	1,206	0	N/A	N/A
478	GA	2,279	30	2607	3
479	AR	3,895	30	2553	4
480	AZ	516	0	N/A	N/A
484	PA	100	30	2679	2
501	AR	7,897	60	2218	3
502	KY	2,167	30	2610	2
503	OR	3,193	30	2576	1
504	LA	1,663	30	2627	1
505	NM	3,463	230	2088	4
507	MN	2,781	80	2231	1
508	MA	7,540	60	2224	3
509	WA	3,075	40	2439	1
510	CA	2,642	40	2450	4
512	TX	10,430	60	2176	3
513	OH	4,575	40	2402	3
515	IA	8,017	280	2059	4
516	NY	1,376	30	2637	4
517	MI	519	30	2665	2
518	NY	6,017	180	2094	3
520	AZ	2640	30	2595	3
530	CA	8,354	80	2162	3
531	NE	50	0	N/A	N/A
534	WI	50	0	N/A	N/A

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
539	OK	50	0	N/A	N/A
540	VA	6,462	30	2467	2
541	OR	6,090	30	2480	3
551	NJ	100	0	N/A	N/A
559	CA	4,582	30	2530	4
561	FL	3,028	40	2440	2
562	CA	3,204	30	2576	4
563	IA	1,037	0	N/A	N/A
564	WA	50	0	N/A	N/A
567	OH	299	0	N/A	N/A
570	PA	5,807	30	2489	1
571	VA	50	0	N/A	N/A
573	MO	3,635	30	2562	3
574	IN	2,111	30	2612	2
575	NM	1,908	40	2468	2
580	OK	1,289	30	2640	3
585	NY	2,056	30	2614	1
586	MI	150	0	N/A	N/A
601	MS	5,081	30	2513	2
602	AZ	1,835	50	2379	2
603	NH	1,360	30	2637	2
605	SD	2,689	30	2593	1
606	KY	3,985	30	2550	4
607	NY	2,884	80	2230	4
608	WI	3,841	270	2076	4
609	NJ	10,008	90	2127	1
610	PA	3,253	30	2574	1
612	MN	3,453	60	2292	4
614	OH	1,832	80	2243	1
615	TN	4,524	80	2209	2
616	MI	4,601	80	2208	2
617	MA	1,180	40	2486	3
618	IL	10,957	400	2039	3
619	CA	3,071	30	2580	2
620	KS	3,395	30	2570	3
623	AZ	136	0	N/A	N/A
626	CA	3,253	40	2435	3
628	CA	60	0	N/A	N/A
629	TN	50	0	N/A	N/A

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
630	IL	4,813	80	2206	4
631	NY	1,884	30	2620	4
636	MO	2,446	40	2455	4
640	NJ	50	0	N/A	N/A
641	IA	1,905	0	N/A	N/A
646	NY	60	0	N/A	N/A
650	CA	3,056	80	2228	4
651	MN	453	40	2505	3
657	CA	60	0	N/A	N/A
659	AL	50	0	N/A	N/A
660	MO	2,896	40	2444	3
661	CA	2,338	30	2605	3
662	MS	11,339	30	2305	3
667	MD	85	0	N/A	N/A
669	CA	50	0	N/A	N/A
678	GA	6,359	30	2471	3
680	NY	50	0	N/A	N/A
681	WV	195	0	N/A	N/A
682	TX	8,006	80	2166	4
689	FL	50	0	N/A	N/A
701	ND	2,013	60	2316	4
702	NV	987	30	2650	4
703	VA	1,577	70	2279	1
704	NC	2,399	30	2603	3
706	GA	5,817	30	2489	4
707	CA	6,678	30	2460	1
708	IL	9,099	1080	2026	1
712	IA	1,599	0	N/A	N/A
713	TX	2,641	200	2103	4
714	CA	4,459	40	2405	3
715	WI	4,735	30	2525	4
716	NY	2,203	90	2214	3
717	PA	2,091	40	2464	3
718	NY	4,201	0	N/A	N/A
719	CO	4,083	30	2547	3
720	CO	675	0	N/A	N/A
724	PA	3,038	30	2581	2
725	NV	50	0	N/A	N/A
726	TX	50	0	N/A	N/A

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
727	FL	978	30	2650	1
731	TN	2,428	40	2455	2
732	NJ	8,700	172	2082	3
734	MI	7,359	280	2061	1
737	TX	50	0	N/A	N/A
740	OH	7,158	80	2177	3
743	NC	50	0	N/A	N/A
747	CA	60	0	N/A	N/A
754	FL	790	0	N/A	N/A
757	VA	3,125	40	2438	4
760	CA	6,399	80	2186	1
762	GA	50	0	N/A	N/A
763	MN	786	30	2656	2
765	IN	8,054	40	2315	3
769	MS	1,107	0	N/A	N/A
770	GA	2,175	30	2610	1
772	FL	708	30	2659	1
773	IL	50	0	N/A	N/A
774	MA	745	0	N/A	N/A
775	NV	2,225	40	2460	2
779	IL	140	0	N/A	N/A
781	MA	2,685	60	2305	3
785	KS	8,021	40	2315	2
786	FL	202	30	2676	4
787	PR	357	0	N/A	N/A
801	UT	1,932	30	2618	2
802	VT	1,650	40	2475	4
803	SC	4,174	30	2544	3
804	VA	4,661	40	2399	2
805	CA	4,595	40	2401	1
806	TX	9,124	48	2243	3
808	HI	1,559	30	2631	3
810	MI	475	30	2667	4
812	IN	6,062	40	2364	2
813	FL	1,283	30	2640	4
814	PA	4,003	30	2549	1
815	IL	4,125	280	2073	3
816	MO	6,361	140	2113	2
817	TX	5,903	80	2192	1

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
818	CA	1,165	30	2644	4
820	CA	50	0	N/A	N/A
828	NC	3,857	40	2420	3
830	TX	3,246	30	2574	2
831	CA	2,562	80	2234	4
832	TX	6,196	80	2189	3
838	NY	50	0	N/A	N/A
839	SC	50	0	N/A	N/A
843	SC	4,054	30	2548	3
845	NY	3,367	30	2570	2
847	IL	5,737	1280	2027	1
848	NJ	55	0	N/A	N/A
850	FL	2,894	30	2586	1
854	SC	50	0	N/A	N/A
856	NJ	4,921	30	2519	3
857	MA	50	0	N/A	N/A
858	CA	3,618	80	2221	4
859	KY	4,987	20	2767	3
860	CT	11,341	0	N/A	N/A
862	NJ	330	0	N/A	N/A
863	FL	1,429	30	2635	1
864	SC	3,694	130	2141	2
865	TN	1,968	30	2617	1
870	AR	7,099	40	2339	3
872	IL	50	0	N/A	N/A
878	PA	50	0	N/A	N/A
901	TN	2,633	30	2595	4
903	TX	10,969	80	2129	4
904	FL	2,063	30	2614	4
906	MI	2,102	30	2613	3
907	AK	2,059	30	2614	1
908	NJ	6,983	80	2179	3
909	CA	4,134	80	2214	2
910	NC	4,119	40	2413	1
912	GA	3428	30	2568	2
913	KS	3,425	30	2568	3
914	NY	2,260	60	2312	3
915	TX	1,080	30	2647	3
916	CA	3,594	60	2289	2

NPA	State Abbr	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
917	NY	50	0	N/A	N/A
918	OK	8,386	30	2403	1
919	NC	3,290	30	2573	1
920	WI	4,428	60	2276	3
925	CA	2,872	80	2230	1
928	AZ	2,423	40	2455	2
929	NY	50	0	N/A	N/A
930	IN	50	0	N/A	N/A
931	TN	4,198	60	2279	2
934	NY	50	0	N/A	N/A
936	TX	294	0	N/A	N/A
937	OH	4,370	40	2407	4
938	AL	50	0	N/A	N/A
939	PR	50	0	N/A	N/A
940	TX	4,742	80	2207	3
941	FL	1,137	30	2645	4
947	MI	1,629	30	2628	2
949	CA	1,488	30	2633	1
951	CA	3,121	60	2297	2
952	MN	355	60	2343	2
954	FL	2,481	30	2600	4
956	TX	7,177	80	2176	2
959	CT	50	0	N/A	N/A
970	CO	4,045	30	2548	4
971	OR	111	0	N/A	N/A
972	TX	4,473	80	2210	1
973	NJ	11,423	280	2047	3
978	MA	3,929	40	2418	4
979	TX	3,178	60	2296	2
980	NC	380	0	N/A	N/A
984	NC	60	0	N/A	N/A
985	LA	2,387	30	2603	1
986	ID	50	0	N/A	N/A
989	MI	3,631	30	2562	3

Table A1-2
Projected Exhaust of 211/511 p-ANIs by State²

² Based on data as of 12/31/2020.

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
AK	907	2,059	30	2614	1
AL	205	5,937	100	2157	3
AL	251	1,956	30	2617	2
AL	256	3,900	80	2217	2
AL	334	6,018	40	2366	3
AL	659	50	0	N/A	N/A
AL	938	50	0	N/A	N/A
AR	479	3,895	30	2553	4
AR	501	7,897	60	2218	3
AR	870	7,099	40	2339	3
AZ	480	516	0	N/A	N/A
AZ	520	2,640	30	2595	3
AZ	602	1,835	50	2379	2
AZ	623	136	0	N/A	N/A
AZ	928	2,423	40	2455	2
CA	209	5,691	160	2105	2
CA	213	3,104	100	2185	4
CA	279	50	0	N/A	N/A
CA	310	3,178	80	2226	2
CA	323	4,157	40	2412	1
CA	341	50	0	N/A	N/A
CA	408	2,752	40	2447	1
CA	415	1,926	30	2618	2
CA	424	50	0	N/A	N/A
CA	442	90	0	N/A	N/A
CA	510	2,642	40	2450	4
CA	530	8,354	80	2162	3
CA	559	4,582	30	2530	4
CA	562	3,204	30	2576	4
CA	619	3,071	30	2580	2
CA	626	3,253	40	2435	3
CA	628	60	0	N/A	N/A
CA	650	3,056	80	2228	4
CA	657	60	0	N/A	N/A
CA	661	2,338	30	2605	3
CA	669	50	0	N/A	N/A
CA	707	6,678	30	2460	1
CA	714	4,459	40	2405	3
CA	747	60	0	N/A	N/A

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
CA	760	6,399	80	2186	1
CA	805	4,595	40	2401	1
CA	818	1,165	30	2644	4
CA	820	50	0	N/A	N/A
CA	831	2,562	80	2234	4
CA	858	3,618	80	2221	4
CA	909	4,134	80	2214	2
CA	916	3,594	60	2289	2
CA	925	2,872	80	2230	1
CA	949	1,488	30	2633	1
CA	951	3,121	60	2297	2
CO	303	4,135	60	2280	2
CO	719	4,083	30	2547	3
CO	720	675	0	N/A	N/A
CO	970	4,045	30	2548	4
CT	203	7,467	0	N/A	N/A
CT	475	1,206	0	N/A	N/A
CT	860	11,341	0	N/A	N/A
CT	959	50	0	N/A	N/A
DC	202	652	24	2822	1
DE	302	2,066	30	2614	4
FL	239	1,562	30	2631	3
FL	305	2,336	30	2605	4
FL	321	1,982	60	2316	2
FL	352	2,658	30	2594	1
FL	386	1,784	80	2244	3
FL	407	2,145	81	2236	2
FL	561	3,028	40	2440	2
FL	689	50	0	N/A	N/A
FL	727	978	30	2650	1
FL	754	790	0	N/A	N/A
FL	772	708	30	2659	1
FL	786	202	30	2676	4
FL	813	1,283	30	2640	4
FL	850	2,894	30	2586	1
FL	863	1,429	30	2635	1
FL	904	2,063	30	2614	4
FL	941	1,137	30	2645	4
FL	954	2,481	30	2600	4
GA	229	3,555	30	2564	1

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
GA	404	2,622	30	2595	2
GA	470	173	0	N/A	N/A
GA	478	2,279	30	2607	3
GA	678	6,359	30	2471	3
GA	706	5,817	30	2489	4
GA	762	50	0	N/A	N/A
GA	770	2,175	30	2610	1
GA	912	3,428	30	2568	2
HI	808	1,559	30	2631	3
IA	319	1,331	0	N/A	N/A
IA	515	8,017	280	2059	4
IA	563	1,037	0	N/A	N/A
IA	641	1,905	0	N/A	N/A
IA	712	1,599	0	N/A	N/A
ID	208	5,484	170	2101	2
ID	986	50	0	N/A	N/A
IL	217	5,563	200	2088	1
IL	224	9,538	380	2044	3
IL	309	4,691	260	2075	4
IL	312	5,082	80	2202	2
IL	331	75	0	N/A	N/A
IL	618	10,957	400	2039	3
IL	630	4813	80	2206	4
IL	708	9,099	1080	2026	1
IL	773	50	0	N/A	N/A
IL	779	140	0	N/A	N/A
IL	815	4,125	280	2073	3
IL	847	5,737	1280	2027	1
IL	872	50	0	N/A	N/A
IN	219	4,349	160	2114	4
IN	260	2,141	30	2611	2
IN	317	4,265	444	2051	2
IN	463	50	0	N/A	N/A
IN	574	2,111	30	2612	2
IN	765	8,054	40	2315	3
IN	812	6,062	40	2364	2
IN	930	50	0	N/A	N/A
KS	316	5,642	100	2160	3
KS	620	3,395	30	2570	3
KS	785	8,021	40	2315	2

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
KS	913	3,425	30	2568	3
KY	270	4,857	30	2521	4
KY	364	110	0	N/A	N/A
KY	502	2,167	30	2610	2
KY	606	3,985	30	2550	4
KY	859	4,987	20	2767	3
LA	225	1,987	60	2316	1
LA	318	4,280	30	2540	1
LA	337	2,623	40	2450	2
LA	504	1,663	30	2627	1
LA	985	2,387	30	2603	1
MA	339	50	0	N/A	N/A
MA	351	60	0	N/A	N/A
MA	413	3,792	80	2219	3
MA	508	7,540	60	2224	3
MA	617	1,180	40	2486	3
MA	774	745	0	N/A	N/A
MA	781	2,685	60	2305	3
MA	857	50	0	N/A	N/A
MA	978	3,929	40	2418	4
MD	240	575	24	2825	2
MD	301	1,902	130	2155	1
MD	410	4,812	30	2522	2
MD	443	100	0	N/A	N/A
MD	667	85	0	N/A	N/A
ME	207	7,776	30	2423	2
MI	231	4,251	100	2173	2
MI	248	6,089	200	2086	3
MI	269	1,930	24	2769	4
MI	313	703	0	N/A	N/A
MI	517	519	30	2665	2
MI	586	150	0	N/A	N/A
MI	616	4,601	80	2208	2
MI	734	7,359	280	2061	1
MI	810	475	30	2667	4
MI	906	2,102	30	2613	3
MI	947	1,629	30	2628	2
MI	989	3,631	30	2562	3
MN	218	3,444	360	2062	4
MN	320	1,620	40	2476	3

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
MN	507	2,781	80	2231	1
MN	612	3,453	60	2292	4
MN	651	453	40	2505	3
MN	763	786	30	2656	2
MN	952	355	60	2343	2
MO	314	10,705	100	2109	4
MO	417	4,975	40	2392	3
MO	573	3,635	30	2562	3
MO	636	2,446	40	2455	4
MO	660	2,896	40	2444	3
MO	816	6,361	140	2113	2
MS	228	2,131	130	2153	2
MS	601	5,081	30	2513	2
MS	662	11,339	30	2305	3
MS	769	1,107	0	N/A	N/A
MT	406	4,728	30	2525	1
NC	252	5,041	80	2203	4
NC	336	3,318	80	2225	3
NC	704	2,399	30	2603	3
NC	743	50	0	N/A	N/A
NC	828	3,857	40	2420	3
NC	910	4,119	40	2413	1
NC	919	3,290	30	2573	1
NC	980	380	0	N/A	N/A
NC	984	60	0	N/A	N/A
ND	701	2,013	60	2316	4
NE	308	2,513	60	2307	2
NE	402	8,059	80	2165	2
NE	531	50	0	N/A	N/A
NH	603	1,360	30	2637	2
NJ	201	9,311	40	2283	1
NJ	551	100	0	N/A	N/A
NJ	609	10,008	90	2127	1
NJ	640	50	0	N/A	N/A
NJ	732	8,700	172	2082	3
NJ	848	55	0	N/A	N/A
NJ	856	4,921	30	2519	3
NJ	862	330	0	N/A	N/A
NJ	908	6,983	80	2179	3
NJ	973	11,423	280	2047	3

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
NM	505	3,463	230	2088	4
NM	575	1,908	40	2468	2
NV	702	987	30	2650	4
NV	725	50	0	N/A	N/A
NV	775	2,225	40	2460	2
NY	212	5,135	30	2512	3
NY	315	7,751	400	2047	3
NY	332	50	0	N/A	N/A
NY	347	50	0	N/A	N/A
NY	516	1,376	30	2637	4
NY	518	6,017	180	2094	3
NY	585	2,056	30	2614	1
NY	607	2,884	80	2230	4
NY	631	1,884	30	2620	4
NY	646	60	0	N/A	N/A
NY	680	50	0	N/A	N/A
NY	716	2,203	90	2214	3
NY	718	4,201	0	N/A	N/A
NY	838	50	0	N/A	N/A
NY	845	3,367	30	2570	2
NY	914	2,260	60	2312	3
NY	917	50	0	N/A	N/A
NY	929	50	0	N/A	N/A
NY	934	50	0	N/A	N/A
OH	216	1,205	280	2083	1
OH	220	50	0	N/A	N/A
OH	234	305	0	N/A	N/A
OH	326	50	0	N/A	N/A
OH	330	7,270	280	2061	2
OH	380	50	0	N/A	N/A
OH	419	6,161	40	2362	4
OH	440	2,423	230	2092	2
OH	513	4,575	40	2402	3
OH	567	299	0	N/A	N/A
OH	614	1,832	80	2243	1
OH	740	7,158	80	2177	3
OH	937	4,370	40	2407	4
OK	405	14,198	30	2209	2
OK	539	50	0	N/A	N/A
OK	580	1,289	30	2640	3

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
OK	918	8,386	30	2403	1
OR	458	50	0	N/A	N/A
OR	503	3,193	30	2576	1
OR	541	6,090	30	2480	3
OR	971	111	0	N/A	N/A
PA	215	1,967	30	2617	1
PA	223	50	0	N/A	N/A
PA	267	50	0	N/A	N/A
PA	272	145	0	N/A	N/A
PA	412	1,179	30	2643	2
PA	445	50	0	N/A	N/A
PA	484	100	30	2679	2
PA	570	5,807	30	2489	1
PA	610	3,253	30	2574	1
PA	717	2,091	40	2464	3
PA	724	3,038	30	2581	2
PA	814	4,003	30	2549	1
PA	878	50	0	N/A	N/A
PR	787	357	0	N/A	N/A
PR	939	50	0	N/A	N/A
RI	401	1,135	24	2802	1
SC	803	,4174	30	2544	3
SC	839	50	0	N/A	N/A
SC	843	4,054	30	2548	3
SC	854	50	0	N/A	N/A
SC	864	3,694	130	2141	2
SD	605	2,689	30	2593	1
TN	423	5,068	40	2389	2
TN	615	4,524	80	2209	2
TN	629	50	0	N/A	N/A
TN	731	2,428	40	2455	2
TN	865	1,968	30	2617	1
TN	901	2,633	30	2595	4
TN	931	4,198	60	2279	2
TX	210	7,372	56	2242	3
TX	214	7,589	140	2105	3
TX	254	8,202	80	2163	2
TX	281	10,345	74	2146	2
TX	325	8,100	100	2135	1
TX	346	50	0	N/A	N/A

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
TX	361	7,358	80	2174	1
TX	409	3,577	80	2221	2
TX	430	1,202	30	2643	3
TX	432	3,306	48	2364	4
TX	469	3,469	60	2292	3
TX	512	10,430	60	2176	3
TX	682	8,006	80	2166	4
TX	713	2,641	200	2103	4
TX	726	50	0	N/A	N/A
TX	737	50	0	N/A	N/A
TX	806	9,124	48	2243	3
TX	817	5,903	80	2192	1
TX	830	3,246	30	2574	2
TX	832	6,196	80	2189	3
TX	903	10,969	80	2129	4
TX	915	1,080	30	2647	3
TX	936	294	0	N/A	N/A
TX	940	4,742	80	2207	3
TX	956	7,177	80	2176	2
TX	972	4,473	80	2210	1
TX	979	3,178	60	2296	2
UT	385	50	0	N/A	N/A
UT	435	2,314	30	2606	3
UT	801	1,932	30	2618	2
VA	276	2,227	40	2460	2
VA	434	3,470	30	2567	1
VA	540	6,462	30	2467	2
VA	571	50	0	N/A	N/A
VA	703	1,577	70	2279	1
VA	757	3,125	40	2438	4
VA	804	4,661	40	2399	2
VI	340	360	0	N/A	N/A
VT	802	1,650	40	2475	4
WA	206	1,262	150	2141	4
WA	253	1,345	0	N/A	N/A
WA	360	2,864	40	2444	2
WA	425	757	30	2657	2
WA	509	3,075	40	2439	1
WA	564	50	0	N/A	N/A
WI	262	310	0	N/A	N/A

State	NPA	Total p-ANI	Forecasted p-ANI	Exhaust Year	Exhaust Qtr.
WI	414	6,527	170	2095	2
WI	534	50	0	N/A	N/A
WI	608	3,841	270	2076	4
WI	715	4,735	30	2525	4
WI	920	4428	60	2276	3
WV	304	10,547	80	2134	1
WV	681	195	0	N/A	N/A
WY	307	3,639	60	2289	3

**Table A1-3
Projected Exhaust of 211/511 p-ANIs by Year³**

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2026	1	IL	708	9,099	1,080
2027	1	IL	847	5,737	1,280
2039	3	IL	618	10,957	400
2044	3	IL	224	9,538	380
2047	3	NJ	973	11,423	280
2047	3	NY	315	7,751	400
2051	2	IN	317	4,265	444
2059	4	IA	515	8,017	280
2061	1	MI	734	7,359	280
2061	2	OH	330	7,270	280
2062	4	MN	218	3,444	360
2073	3	IL	815	4,125	280
2075	4	IL	309	4,691	260
2076	4	WI	608	3,841	270
2082	3	NJ	732	8,700	172
2083	1	OH	216	1,205	280
2086	3	MI	248	6,089	200
2088	1	IL	217	5,563	200

³ Based on data as of 12/31/2020.

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2088	4	NM	505	3,463	230
2092	2	OH	440	2,423	230
2094	3	NY	518	6,017	180
2095	2	WI	414	6,527	170
2101	2	ID	208	5,484	170
2103	4	TX	713	2,641	200
2105	2	CA	209	5,691	160
2105	3	TX	214	7,589	140
2109	4	MO	314	10,705	100
2113	2	MO	816	6,361	140
2114	4	IN	219	4,349	160
2127	1	NJ	609	10,008	90
2129	4	TX	903	10,969	80
2134	1	WV	304	10,547	80
2135	1	TX	325	8,100	100
2141	2	SC	864	3,694	130
2141	4	WA	206	1,262	150
2146	2	TX	281	10,345	74
2153	2	MS	228	21,31	130
2155	1	MD	301	1,902	130
2157	3	AL	205	5,937	100
2160	3	KS	316	5,642	100
2162	3	CA	530	8,354	80
2163	2	TX	254	8,202	80
2165	2	NE	402	8,059	80
2166	4	TX	682	8,006	80
2173	2	MI	231	4,251	100
2174	1	TX	361	7,358	80
2176	2	TX	956	7,177	80
2176	3	TX	512	10,430	60
2177	3	OH	740	7,158	80
2179	3	NJ	908	6,983	80
2185	4	CA	213	3,104	100
2186	1	CA	760	6,399	80
2189	3	TX	832	6,196	80
2192	1	TX	817	5,903	80
2202	2	IL	312	5,082	80
2203	4	NC	252	5,041	80
2206	4	IL	630	4,813	80

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2207	3	TX	940	4,742	80
2208	2	MI	616	4,601	80
2209	2	OK	405	14,198	30
2209	2	TN	615	4,524	80
2210	1	TX	972	4,473	80
2214	2	CA	909	41,34	80
2214	3	NY	716	2,203	90
2217	2	AL	256	3,900	80
2218	3	AR	501	7,897	60
2219	3	MA	413	3,792	80
2221	2	TX	409	3,577	80
2221	4	CA	858	3,618	80
2224	3	MA	508	7,540	60
2225	3	NC	336	3,318	80
2226	2	CA	310	3,178	80
2228	4	CA	650	3,056	80
2230	1	CA	925	2,872	80
2230	4	NY	607	2,884	80
2231	1	MN	507	2,781	80
2234	4	CA	831	2,562	80
2236	2	FL	407	2,145	81
2242	3	TX	210	7,372	56
2243	1	OH	614	1,832	80
2243	3	TX	806	9,124	48
2244	3	FL	386	1,784	80
2276	3	WI	920	4,428	60
2279	1	VA	703	1,577	70
2279	2	TN	931	4,198	60
2280	2	CO	303	4,135	60
2283	1	NJ	201	9,311	40
2289	2	CA	916	3,594	60
2289	3	WY	307	3,639	60
2292	3	TX	469	3,469	60
2292	4	MN	612	3,453	60
2296	2	TX	979	3,178	60
2297	2	CA	951	3,121	60
2305	3	MA	781	2,685	60
2305	3	MS	662	11,339	30
2307	2	NE	308	2,513	60

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2312	3	NY	914	2,260	60
2315	2	KS	785	8,021	40
2315	3	IN	765	8,054	40
2316	1	LA	225	1,987	60
2316	2	FL	321	1,982	60
2316	4	ND	701	2,013	60
2339	3	AR	870	7,099	40
2343	2	MN	952	355	60
2362	4	OH	419	6,161	40
2364	2	IN	812	6,062	40
2364	4	TX	432	3,306	48
2366	3	AL	334	6,018	40
2379	2	AZ	602	1,,835	50
2389	2	TN	423	5,068	40
2392	3	MO	417	4,975	40
2399	2	VA	804	4,661	40
2401	1	CA	805	4,595	40
2402	3	OH	513	4,575	40
2403	1	OK	918	8,386	30
2405	3	CA	714	4,459	40
2407	4	OH	937	4,370	40
2412	1	CA	323	4,157	40
2413	1	NC	910	4,119	40
2418	4	MA	978	3,929	40
2420	3	NC	828	3,857	40
2423	2	ME	207	7,776	30
2435	3	CA	626	3,253	40
2438	4	VA	757	3,125	40
2439	1	WA	509	3075	40
2440	2	FL	561	3,028	40
2444	2	WA	360	2,864	40
2444	3	MO	660	2,896	40
2447	1	CA	408	2,752	40
2450	2	LA	337	2,623	40
2450	4	CA	510	2,642	40
2455	2	AZ	928	2,423	40
2455	2	TN	731	2,428	40
2455	4	MO	636	2,446	40
2460	1	CA	707	6,678	30

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2460	2	NV	775	2,225	40
2460	2	VA	276	2,227	40
2464	3	PA	717	2,091	40
2467	2	VA	540	6,462	30
2468	2	NM	575	1,908	40
2471	3	GA	678	6,359	30
2475	4	VT	802	1,650	40
2476	3	MN	320	1,620	40
2480	3	OR	541	6,090	30
2486	3	MA	617	1,180	40
2489	1	PA	570	5,807	30
2489	4	GA	706	5,817	30
2505	3	MN	651	453	40
2512	3	NY	212	5,135	30
2513	2	MS	601	5,081	30
2519	3	NJ	856	4,921	30
2521	4	KY	270	4,857	30
2522	2	MD	410	4,812	30
2525	1	MT	406	4,728	30
2525	4	WI	715	4,735	30
2530	4	CA	559	4,582	30
2540	1	LA	318	4,280	30
2544	3	SC	803	4,174	30
2547	3	CO	719	4,083	30
2548	3	SC	843	4,054	30
2548	4	CO	970	4,045	30
2549	1	PA	814	4,003	30
2550	4	KY	606	3,985	30
2553	4	AR	479	3,895	30
2562	3	MI	989	3,631	30
2562	3	MO	573	3,635	30
2564	1	GA	229	3,555	30
2567	1	VA	434	3,470	30
2568	2	GA	912	3,428	30
2568	3	KS	913	3,425	30
2570	2	NY	845	3,367	30
2570	3	KS	620	3,395	30
2573	1	NC	919	3,290	30
2574	1	PA	610	3,253	30

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2574	2	TX	830	3,246	30
2576	1	OR	503	3,193	30
2576	4	CA	562	3,204	30
2580	2	CA	619	3,071	30
2581	2	PA	724	3,038	30
2586	1	FL	850	2,894	30
2593	1	SD	605	2,689	30
2594	1	FL	352	2,658	30
2595	2	GA	404	2,622	30
2595	3	AZ	520	2,640	30
2595	4	TN	901	26,33	30
2600	4	FL	954	2,481	30
2603	1	LA	985	2,387	30
2603	3	NC	704	2,399	30
2605	3	CA	661	2,338	30
2605	4	FL	305	2,336	30
2606	3	UT	435	2,314	30
2607	3	GA	478	2,279	30
2610	1	GA	770	2,175	30
2610	2	KY	502	2,167	30
2611	2	IN	260	2,141	30
2612	2	IN	574	2,111	30
2613	3	MI	906	2,102	30
2614	1	AK	907	2,059	30
2614	1	NY	585	2,056	30
2614	4	DE	302	2,066	30
2614	4	FL	904	2,063	30
2617	1	PA	215	1,967	30
2617	1	TN	865	1,968	30
2617	2	AL	251	1,956	30
2618	2	CA	415	1,926	30
2618	2	UT	801	1,932	30
2620	4	NY	631	1,884	30
2627	1	LA	504	1,663	30
2628	2	MI	947	1,629	30
2631	3	FL	239	1,562	30
2631	3	HI	808	1,559	30
2633	1	CA	949	1,488	30
2635	1	FL	863	1,429	30

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
2637	2	NH	603	1,360	30
2637	4	NY	516	1,376	30
2640	3	OK	580	1,289	30
2640	4	FL	813	1,283	30
2643	2	PA	412	1,179	30
2643	3	TX	430	1,202	30
2644	4	CA	818	1,165	30
2645	4	FL	941	1,137	30
2647	3	TX	915	1,080	30
2650	1	FL	727	978	30
2650	4	NV	702	987	30
2656	2	MN	763	786	30
2657	2	WA	425	757	30
2659	1	FL	772	708	30
2665	2	MI	517	519	30
2667	4	MI	810	475	30
2676	4	FL	786	202	30
2679	2	PA	484	100	30
2767	3	KY	859	4,987	20
2769	4	MI	269	1,930	24
2802	1	RI	401	1,135	24
2822	1	DC	202	652	24
2825	2	MD	240	575	24
N/A	N/A	AL	659	50	0
N/A	N/A	AL	938	50	0
N/A	N/A	AZ	480	516	0
N/A	N/A	AZ	623	136	0
N/A	N/A	CA	279	50	0
N/A	N/A	CA	341	50	0
N/A	N/A	CA	424	50	0
N/A	N/A	CA	442	90	0
N/A	N/A	CA	628	60	0
N/A	N/A	CA	657	60	0
N/A	N/A	CA	669	50	0
N/A	N/A	CA	747	60	0
N/A	N/A	CA	820	50	0
N/A	N/A	CO	720	675	0
N/A	N/A	CT	203	7,467	0
N/A	N/A	CT	475	1,206	0

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
N/A	N/A	CT	860	11,341	0
N/A	N/A	CT	959	50	0
N/A	N/A	FL	689	50	0
N/A	N/A	FL	754	790	0
N/A	N/A	GA	470	173	0
N/A	N/A	GA	762	50	0
N/A	N/A	IA	319	1,331	0
N/A	N/A	IA	563	1,037	0
N/A	N/A	IA	641	1,905	0
N/A	N/A	IA	712	1,599	0
N/A	N/A	ID	986	50	0
N/A	N/A	IL	331	75	0
N/A	N/A	IL	773	50	0
N/A	N/A	IL	779	140	0
N/A	N/A	IL	872	50	0
N/A	N/A	IN	463	50	0
N/A	N/A	IN	930	50	0
N/A	N/A	KY	364	110	0
N/A	N/A	MA	339	50	0
N/A	N/A	MA	351	60	0
N/A	N/A	MA	774	745	0
N/A	N/A	MA	857	50	0
N/A	N/A	MD	443	100	0
N/A	N/A	MD	667	85	0
N/A	N/A	MI	313	703	0
N/A	N/A	MI	586	150	0
N/A	N/A	MS	769	1,107	0
N/A	N/A	NC	743	50	0
N/A	N/A	NC	980	380	0
N/A	N/A	NC	984	60	0
N/A	N/A	NE	531	50	0
N/A	N/A	NJ	551	100	0
N/A	N/A	NJ	640	50	0
N/A	N/A	NJ	848	55	0
N/A	N/A	NJ	862	330	0
N/A	N/A	NV	725	50	0
N/A	N/A	NY	332	50	0
N/A	N/A	NY	347	50	0
N/A	N/A	NY	646	60	0

Exhaust Year	Exhaust Qtr	STATE	NPA	Total p_ANI	Forecasted p_ANI
N/A	N/A	NY	680	50	0
N/A	N/A	NY	718	4,201	0
N/A	N/A	NY	838	50	0
N/A	N/A	NY	917	50	0
N/A	N/A	NY	929	50	0
N/A	N/A	NY	934	50	0
N/A	N/A	OH	220	50	0
N/A	N/A	OH	234	305	0
N/A	N/A	OH	326	50	0
N/A	N/A	OH	380	50	0
N/A	N/A	OH	567	299	0
N/A	N/A	OK	539	50	0
N/A	N/A	OR	458	50	0
N/A	N/A	OR	971	111	0
N/A	N/A	PA	223	50	0
N/A	N/A	PA	267	50	0
N/A	N/A	PA	272	145	0
N/A	N/A	PA	445	50	0
N/A	N/A	PA	878	50	0
N/A	N/A	PR	787	357	0
N/A	N/A	PR	939	50	0
N/A	N/A	SC	839	50	0
N/A	N/A	SC	854	50	0
N/A	N/A	TN	629	50	0
N/A	N/A	TX	346	50	0
N/A	N/A	TX	726	50	0
N/A	N/A	TX	737	50	0
N/A	N/A	TX	936	294	0
N/A	N/A	UT	385	50	0
N/A	N/A	VA	571	50	0
N/A	N/A	VI	340	360	0
N/A	N/A	WA	253	1,345	0
N/A	N/A	WA	564	50	0
N/A	N/A	WI	262	310	0
N/A	N/A	WI	534	50	0
N/A	N/A	WV	681	195	0

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